



Singapore Standard Occupational Classification

2010



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PREFACE

The Singapore Department of Statistics (DOS) develops national statistical standards and promotes their adoption and use in Singapore. The adoption and use of these standards in the collection, analysis and dissemination of statistics ensures consistency and comparability of data, facilitating relevant and meaningful analysis as well as data sharing.

The Singapore Standard Occupational Classification (SSOC) is the national standard for classifying occupations. The SSOC is used for censuses of population, household surveys and administrative databases. The SSOC adopts the basic framework and principles of the International Standard Classification of Occupations (ISCO) developed by the International Labour Office (ILO). It is reviewed and updated periodically to reflect developments in the labour market, particularly the emergence of new occupations as well as to align with changes in the international standard.

The SSOC 2010 is the sixth version of the SSOC and supersedes earlier versions. This publication includes the occupational codes, scope and structure of the classification as well as descriptions of the principles. To facilitate better understanding and appropriate use of the classification, detailed write-up is provided at the unit group (four-digit) level. A comparison table of SSOC 2005 and SSOC 2010 up to the unit group level is also included to facilitate better understanding of the changes.

The review of the SSOC was undertaken by a working group comprising representatives from many agencies, including the Singapore Department of Statistics, Central Provident Fund Board, Economic Development Board, Infocomm Development Authority of Singapore, Institute of Technical Education, Monetary Authority of Singapore, Ministry of Health, Ministry of Manpower and Singapore Workforce Development Agency. Inputs from other ministries and statutory boards have also been incorporated, where appropriate. I would like to thank all who have contributed to the review of the classification.

Wong Wee Kim
Chief Statistician
Singapore

February 2010

Our Vision

A National Statistical System of Quality, Integrity and Expertise.

Our Mission

We Provide Reliable, Relevant and Timely Statistics to Support Singapore's Social and Economic Development.

Our Guiding Principles

Professionalism & Expertise	<i>We adhere to professional ethics and proficiently produce quality statistics that comply with international concepts and best practices.</i>
Relevance	<i>We constantly innovate our processes and produce statistics that meet users' needs.</i>
Accessibility	<i>We make our statistics readily available.</i>
Confidentiality	<i>We protect the confidentiality of information provided to us.</i>
Timeliness & Reliability	<i>We produce statistics that users can depend on and disseminate them at the earliest possible date while maintaining data quality.</i>
Cost Effectiveness	<i>We use resources effectively, minimising respondent burden and leveraging on administrative data.</i>

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SINGAPORE STANDARD OCCUPATIONAL CLASSIFICATION 2010

Introduction

The Singapore Standard Occupational Classification (SSOC) is designed for use in the collection of data (e.g. censuses, surveys, administrative records) that requires the classification of occupations. It is also used in the compilation, presentation and analysis of a wide range of statistics, including demographic, social and labour statistics. To ensure the continuing relevance of the SSOC, the classification is revised and updated regularly, taking into account economic, technological and organisational changes which tend to bring about emergence of new types of work as well as redundancy of some existing jobs.

2 The SSOC 2010 adopts the basic framework of the International Standard Classification of Occupations 2008 (ISCO-08) with appropriate modifications to take into account changes in Singapore's employment landscape while enhancing international comparability. It replaces the SSOC 2005 which was based on ISCO-88.

Scope of the Classification

3 The SSOC 2010 is a classification of occupations according to the type of work performed. Its primary objective is to classify the occupations of the civilian working population, but with provisions for the collective classification of those in the armed services and the foreign diplomatic personnel. It is not applicable to the economically inactive population such as housewives, full-time students, retired persons and voluntary social workers.

Principles of the Classification

4 The basic principle used in the classification of occupations in the SSOC 2010 is the main type of work performed. Persons who perform the same principal tasks are considered as doing the same type of work and classified under the same occupational group irrespective of work experience, skills and qualifications.

5 In defining the broad types of work in the SSOC 2010, the basic concept of skill is adopted. Skill refers to the ability to carry out the tasks and duties of an occupation and has the following two dimensions:

- a **Skill level**, which is a function of the complexity and range of the tasks and duties involved; and
- b **Skill specialisation**, defined by the field of knowledge required, the tools and machinery used, the materials worked on or with, as well as the kinds of goods and services produced.

6 There are basically four broad skill levels which can be defined in operational terms as follows:

- a The **first skill level** is defined as requiring primary or no education.
- b The **second skill level** is defined as requiring secondary or post secondary education.
- c The **third skill level** is defined as requiring tertiary education leading to an award not equivalent to a first university degree.
- d The **fourth skill level** is defined as requiring tertiary education leading to a university or postgraduate university degree, or the equivalent.

7 The use of educational categories to define the four skill levels does not imply that the skills necessary to perform the tasks and duties of a given job can be acquired only through formal education. The skills may be, and often are, acquired through informal training and experience. In addition, the focus is on the skills required to carry out the tasks and duties of an occupation and not on whether a worker in a particular occupation is more or less skilled than another worker in the same occupation.

Structure of the Classification

8 The SSOC 2010 comprises five levels of aggregation, namely Major Group, Sub-major Group, Minor Group, Unit Group and Occupation.

Major Group (one-digit or -alphabetical codes) is the highest level of aggregation and represents very broad fields of work rather than specific types of work performed. There are 10 major groups, including nine numerical groups for Professionals, Clerical Support Workers and Craftsmen, etc, and Major Group X. They are each identified by their corresponding one-digit or -alphabetical code, i.e. 1, 2, 3, 4, 5, 6, 7, 8, 9 or X as the case may be.

Sub-major Groups (two-digit codes) are the sub-divisions of the major groups e.g. Science and Engineering Professionals (Sub-major Group 21) within the Major Group 2 'Professionals'.

Minor Groups (three-digit codes) are the sub-divisions within the sub-major groups e.g. Engineering Professionals (Excluding Electrotechnology) (Minor Group 214) within the Sub-major Group 21 'Science and Engineering Professionals'.

Unit Groups (four-digit codes) are sub-divisions of the minor groups. The classification of unit groups is finer and more detailed than that of the minor groups e.g. Civil Engineers (Unit Group 2142) within the Minor Group 214 'Engineering Professionals (Excluding Electrotechnology)'.

Occupations (five-digit codes) are sub-divisions of the unit groups and the most detailed grouping in SSOC.

9 The skills level associated with each major occupational group are indicated as follows:

- a Occupations in Major Group 2 'Professionals' require the fourth skill level as defined earlier.
- b Occupations in Major Group 3 'Associate Professionals and Technicians' require the third skill level as defined earlier.
- c Occupations in Major Groups 4 'Clerical Support Workers', 5 'Service and Sales Workers', 6 'Agricultural and Fishery Workers', 7 'Craftsmen

and Related Trades Workers', and 8 'Plant and Machine Operators and Assemblers' require the second skill level as defined earlier.

- d Occupations in Major Group 9 'Cleaners, Labourers and Related Workers' require the first skill level as defined earlier.

10 Skill level reference is not made to Major Group 1 'Legislators, Senior Officials and Managers' as other aspects of the type of work were considered more important, i.e. policy making and management functions. These aspects are such that there could arise significant skill differences between occupations classified in this major group. Skill level reference is also not made to Major Group X as it is essentially a residual major group, which would be difficult to relate it to any one of the four broad skills levels.

11 The following table summarises the number of sub-groups in each major group and the skill level associated with each of them.

Major Group	Sub-Major Group	Minor Group	Unit Group	Occupation	Skill Level
1 Legislators, Senior Officials and Managers	4	11	33	71	NA
2 Professionals	7	26	78	228	4 th
3 Associate Professionals and Technicians	7	27	84	251	3 rd
4 Clerical Support Workers	5	9	22	57	2 nd
5 Service and Sales Workers	5	16	39	87	2 nd
6 Agricultural and Fishery Workers	2	4	7	17	2 nd
7 Craftsmen and Related Trades Workers	5	19	58	168	2 nd
8 Plant and Machine Operators and Assemblers	3	17	58	182	2 nd
9 Cleaners, Labourers and Related Workers	5	11	21	56	1 st
X Workers not Classifiable by Occupation	-	-	-	5	NA
Total	43	140	400	1,122	

12 A numerical five-digit coding system is used to distinguish the different levels of classification. The numbering system is hierarchical in nature, showing progressively finer detail in skill specialisation from the highest level of aggregation (one-digit) to the lowest level (five-digit). This allows users the flexibility to tabulate, analyse and publish data according to the level of detail required.

Classification	Title	Code
Major Group	Professionals	2
Sub-Major Group	Science and Engineering Professionals	21
Minor Group	Engineering Professionals (Excluding Electrotechnology)	214
Unit Group	Civil Engineers	2142
Occupation	Civil Engineer (General)	21421
	Structural Engineer (General)	21422
	Building Construction Engineer	21423
	Soil Mechanic Engineer	21424
	Other Civil Engineers	21429

13 In cases where a given level of classification is not divided into groups or occupations at the next more detailed level of classification, the last digit of the code for the only group or occupation at the next detailed level would be '0'. For instance, the unit group 'Secretaries and Verbatim Reporters' is coded as 4120 as the minor group 'Secretaries and Verbatim Reporters' (code 412) contains only one unit group. Similarly, the occupational code for 'Glazier' is 71250 as it is the only occupation within the Unit Group 'Glaziers' (code 7125).

14 At a given level of aggregation, including the most detailed five-digit level, the digit '9' that appears in the last digit position denotes residual occupations grouped at the respective level of detail. These residual categories usually comprise a range of the less common types of occupational groups which are not significant enough to justify a separate code. They are classified in a separate category so that no occupation, however small or insignificant, is left out of the classification scheme.

15 The numerical codes of SSOC 2010 are closely aligned with ISCO-08 to facilitate easy comparison between the two classifications. As such, the codes at the two, three and four-digit levels may not run consecutively if an ISCO code is not used in SSOC. For instance, the SSOC does not contain the ISCO code 1113 'Traditional Chiefs and Heads of Village'.

Application of the Classification

Occupations with Multiple Tasks and Duties

16 In cases where the tasks and duties performed require different skill levels, the job should be classified according to those tasks and duties which require the highest level of skill. For example, a job which consists of driving a van and delivering goods should be classified in unit group 8322 'Car, Taxi and Van Drivers' instead of 9333 'Material and Freight Handling Workers'.

17 In cases where the tasks and duties are associated with different stages of the process of producing and distributing goods and services, the tasks and duties related to the production stage should take priority over associated tasks and duties, such as those related to the sale, marketing and transportation of the same goods (unless either of these associated tasks and duties dominates). For example, a worker who bakes bread and pastries and then sells them should be classified as a baker and not a sales worker.

Chief Executives, Managing Directors and General Managers

18 Managing directors, chief executives or general managers determine and formulate policies, plan, direct and coordinate the activities of their companies or organisations. They are generally assisted by at least two other managers, and operate within guidelines from their boards or councils. Those with similar job titles but whose job scope does not fulfil the above criteria are classified in occupations more appropriate to their job duties and scope of work.

Working Proprietors

19 Working proprietors generally refer to those who operate and manage their own businesses. While working proprietors are self-employed, not all self-employed are to be classified as working proprietors. Self-employed professionals, insurance agents, real estate agents, pawnbrokers, money changers, hawkers, hair-dressers, electricians, motor car mechanics etc, who perform the principal tasks of their respective occupations are to be classified in these occupations and not as working proprietors.

Comparison with SSOC 2005

20 A comparison of the major groups in SSOC 2010 and SSOC 2005 is shown in the following table. While the number of major groups remains unchanged at ten in SSOC 2010, the descriptions of a few major groups have been amended to better reflect existing norms.

SSOC 2010		SSOC 2005	
1	Legislators, Senior Officials and Managers	1	Legislators, Senior Officials and Managers
2	Professionals	2	Professionals
3	Associate Professionals and Technicians	3	Associate Professionals and Technicians
4	Clerical Support Workers	4	Clerical Workers
5	Service and Sales Workers	5	Service Workers and Shop and Market Sales Workers
6	Agricultural and Fishery Workers	6	Agricultural and Fishery Workers
7	Craftsmen and Related Trades Workers	7	Production Craftsmen and Related Workers
8	Plant and Machine Operators and Assemblers	8	Plant and Machine Operators and Assemblers
9	Cleaners, Labourers and Related Workers	9	Cleaners, Labourers and Related Workers
X	Workers not Classifiable by Occupation	X	Workers not Classifiable by Occupation

21 The number of sub-major (two-digit), minor (three-digit) and unit (four-digit) groups has increased which provides for more detailed breakdown at each of these levels. The number of occupations (i.e. five-digit codes) has also increased with more occupations being assigned unique codes.

	SSOC 2010	SSOC 2005
Sub-Major Group (two-digit)	43	32
Minor Group (three-digit)	140	119
Unit Group (four-digit)	400	317
Occupation (five-digit)	1,122	999

22 The more significant new sub-major groups in SSOC 2010 are shown in the table below. A comparison between SSOC 2010 and 2005 down to the unit group level is presented in the Appendix.

Major Group	Sub-Major Group	
1 Legislators, Senior Officials and Managers	12	Administrative and Commercial Managers
	13	Production and Specialised Services Managers
	14	Hospitality and Related Services Managers
2 Professionals	22	Health Professionals
	25	Information and Communications Technology Professionals
3 Associate Professionals and Technicians	32	Health Associate Professionals
	35	Information and Communications Technicians
4 Clerical Support Workers	41	General and Keyboard Clerks
	43	Numerical and Material Recording Clerks
5 Service and Sales Workers	51	Personal Service Workers
	53	Personal Care Workers
	54	Protective Service Workers
7 Craftsmen and Related Trades Workers	74	Electrical and Electronic Trades Workers

23 In Major Group 1 'Legislators, Senior Officials and Managers', the five-digit codes for general managers, which were previously differentiated by industry, have been consolidated into a single code, similar to other senior management occupations like managing director and chief executive officer. The sub-major group of working proprietors has been removed in SSOC 2010. The various five-digit codes for working proprietors have been regrouped with managers whose job duties are relatively similar (e.g. construction working proprietor with building and construction project manager, manufacturing working proprietor with manufacturing plant and production manager).

24 The previous sub-major group 'Corporate Managers' has been split into three sub-major groups i.e. 'Administrative and Commercial Managers', 'Production and Specialised Services Managers' and 'Hospitality, Retail and related Services Managers', allowing for the identification of the different types of management work, e.g. policy and planning managers, call centre managers, education managers, child care services managers, aged care service managers, financial and insurance services managers, casino operations managers and amusement/theme park managers.

25 In Major Group 2 'Professionals', health and information and communications technology (ICT) professionals is elevated from three-digit groups to two-digit sub-major groups. For ICT professionals, this enables a larger variety of occupations to be identified, with the number of four-digit groups for such professionals increasing from four in SSOC 2005 to 11 in SSOC 2010. For health professionals, medical doctors, which used to be classified within a single unit group, can now be classified under four distinct unit groups i.e. one for generalist medical practitioners and three for specialist medical practitioners (medical, surgical and other specialisations).

26 A new three-digit group 'Electrotechnology Engineers' has been created to separately group electrical, electronics and telecommunications engineers, which were previously classified in the same three-digit group as other engineers like civil engineers, mechanical engineers and chemical engineers. At the five-digit level, unique codes have been created for occupations such as environment research scientist, medical scientist, management consultant, human resource consultant, advertising creative director, IT business process consultant, web developer, database architect and the various types of specialist medical doctors.

27 Like their counterparts in Major Group 2 'Professionals', health associate professionals and information and communications technicians have also been elevated to two-digit sub-major groups in Major Group 3 'Technicians and Associate Professionals', allowing for a more detailed breakdown for such occupations. The new occupations in Major Group 3 include food science technician, dental health therapist, audiologist, podiatrist, credit and loans officers, business development executive, legal associate professional, landscape designer, multimedia designer and website administrator.

28 In Major Group 4 'Clerical Support Workers', the previous sub-major group 'Office Clerks' has been split into two sub-major groups, namely 'General and Keyboard Clerks' and 'Numerical and Material Recording Clerks'. In Major Group 5 'Service and Sales Workers', the previous sub-major group 'Service Workers' is split into three sub-major groups i.e. 'Personal Service Workers', 'Personal Care Workers' and 'Protective Service Workers'. Other significant structural changes include the creation of a separate sub-major group for electrical and electronic trades workers' in Major Group 7 'Craftsmen and Related Trades Workers' and the expansion of the sub-major group for stationary plant operators to include machine operators in Major Group 8 'Plant and Machine Operators and Assemblers'.

29 For the above major groups, new five-digit codes created include purchasing clerk, bank operations clerk, theme park guide, chef, waiter supervisor, slimming consultant, croupier, child/after school care centre worker, teachers' aide and healthcare assistant.

Classification of Occupations

SSOC 2010	OCCUPATION	SSOC 2005
1	<u>LEGISLATORS, SENIOR OFFICIALS AND MANAGERS</u>	
11	LEGISLATORS, SENIOR OFFICIALS AND CHIEF EXECUTIVES	
111	LEGISLATORS AND SENIOR OFFICIALS	
1111	<u>Legislators</u>	
11110	Legislator	11100
1112	<u>Senior Government and Statutory Board Officials</u>	
11121	Senior government official	11201
11122	Senior statutory board official	11202
1114	<u>Senior Officials of Political Party Organisations</u>	
11140	Senior official of political party organisation	11310
1115	<u>Senior Officials of Employers', Workers' and Other Economic-Interest Organisations</u>	
11150	Senior official of employers', workers' and other economic-interest organisation	11320
1116	<u>Senior Officials of Humanitarian and Other Special-Interest Organisations</u>	
11160	Senior official of humanitarian and other special-interest organisation	11330
112	MANAGING DIRECTORS, CHIEF EXECUTIVES AND GENERAL MANAGERS	
1120	<u>Managing Directors, Chief Executives and General Managers</u>	
11201	Managing director/Chief executive officer	12101
11202	Company director	12102
11203	Chief operating officer/General Manager	12201, 12202, 12203, 12204, 12205, 12206, 12209

SSOC 2010	OCCUPATION	SSOC 2005
12	ADMINISTRATIVE AND COMMERCIAL MANAGERS	
121	BUSINESS SERVICES AND ADMINISTRATION MANAGERS	
1211	<u>Finance and Administration Managers</u>	
12111	Budgeting and financial accounting manager (including financial controller)	12331
12112	Administration manager	12332
1212	<u>Human Resource Managers</u>	
12121	Personnel/Human resource manager	12341
12122	Industrial relations manager	12342
12123	Training manager	12343
1213	<u>Policy and Planning Managers</u>	
12130	Policy and planning manager	12399 (part)
1219	<u>Business Services and Administration Managers Not Elsewhere Classified</u>	
12191	Premises and facilities maintenance manager	12392
12192	Landscape operations manager	new item
12193	Working proprietor (business services and administrative services)	13094 (part)
12199	Other business services and administration managers nec	12399 (part)
122	SALES, MARKETING, DEVELOPMENT AND CUSTOMER SERVICE MANAGERS	
1221	<u>Sales, Marketing and Business Development Managers</u>	
12211	Sales and marketing manager	12321, 12329
12212	Business development manager	12391
1222	<u>Advertising and Public Relations Managers</u>	
12220	Advertising/Public relations manager	12350
1223	<u>Research and Development Managers</u>	
12230	Research and development manager	12360
1224	<u>Customer Service and Call Centre Managers</u>	
12241	Customer service manager	12322 (part)
12242	Call centre manager	12322 (part)

SSOC 2010	OCCUPATION	SSOC 2005
13	PRODUCTION AND SPECIALISED SERVICES MANAGERS	
131	PRODUCTION MANAGERS IN AGRICULTURE AND FISHERIES	
1310	<u>Production Managers in Agriculture and Fisheries</u>	
13101	Production manager in agriculture and fisheries	12909 (part)
13102	Working proprietor (agriculture and fisheries)	13099 (part)
132	MANUFACTURING, CONSTRUCTION, TRANSPORT, DISTRIBUTION AND OTHER PRODUCTION AND OPERATIONS MANAGERS	
1321	<u>Manufacturing Managers</u>	
13211	Manufacturing plant/production manager	12311
13212	Working proprietor (manufacturing)	13091
1323	<u>Construction Managers</u>	
13231	Building and construction project manager	12312
13232	Working proprietor (construction)	13092
1324	<u>Transport, Supply, Distribution and Related Managers</u>	
13241	Supply and distribution/Logistics/Warehousing manager	12316
13242	Procurement/Purchasing manager	12315
13243	Transport operations manager	12313
13244	Postal service manager	12319 (part)
13245	Working proprietor (transport, storage and courier)	13093 (part)
1329	<u>Production and Operations Managers Not Elsewhere Classified</u>	
13291	Technical/Engineering services manager (eg shipyard manager)	12319 (part)
13292	Quality assurance manager	12314
13299	Other production and operations managers nec (eg mining manager)	12319 (part)
133	INFORMATION AND COMMUNICATIONS TECHNOLOGY SERVICE MANAGERS	
1330	<u>Information and Communications Technology Service Managers</u>	
13301	Chief information officer/Chief technology officer/Chief security officer	21311
13302	Software and applications manager	21319 (part)
13303	Network and communications manager	21312
13304	IT service manager	21319 (part)
13305	Working proprietor (information and communications technology service)	13093 (part), 13094 (part)

SSOC 2010	OCCUPATION	SSOC 2005
134	PROFESSIONAL, FINANCIAL, COMMUNITY AND SOCIAL SERVICES MANAGERS	
1341	<u>Child Care Services Managers</u>	
13410	Child care services manager	33110 (part)
1342	<u>Health Services Managers</u>	
13420	Health services manager	new item
1343	<u>Aged Care Services Managers</u>	
13430	Aged care services manager	new item
1344	<u>Social Welfare Managers</u>	
13440	Social welfare manager	new item
1345	<u>Education Managers</u>	
13451	School principal	23910
13459	Other education managers (including registrars and deans of education institutions)	new item
1346	<u>Financial and Insurance Services Managers</u>	
13460	Financial/Insurance services manager (eg financial institution branch manager)	new item
1349	<u>Professional, Financial, Community and Social Services Managers Not Elsewhere Classified</u>	
13491	Working proprietor (professional, financial, community and social services)	13095 (part), 13099 (part)
13499	Other professional, financial, community and social services managers nec	12909 (part), 12399 (part)
14	HOSPITALITY, RETAIL AND RELATED SERVICES MANAGERS	
141	HOTEL AND FOOD AND BEVERAGES SERVICES MANAGERS	
1411	<u>Hotel Operations and Lodging Services Managers</u>	
14111	Hotel operations/Lodging services manager	12902
14112	Working proprietor (lodging services)	13021

SSOC 2010	OCCUPATION	SSOC 2005
1412	<u>Food and Beverages Services Managers</u>	
14121	Restaurant manager	12903 (part)
		12909 (part)
14122	Catering services manager	12903 (part)
14123	Working proprietor (restaurant and other catering services)	13022
142	RETAIL AND WHOLESALE TRADE MANAGERS	
1420	<u>Retail and Wholesale Trade Managers</u>	
14201	Retail/Shop sales manager	12901
14202	Wholesale trade manager	12909 (part)
14203	Working proprietor (retail trade)	13012
14204	Working proprietor (wholesale trade)	13011
143	OTHER SERVICES MANAGERS	
1431	<u>Sports Centre Managers</u>	
14310	Sports centre manager	new item
1432	<u>Recreation Centre Managers</u>	
14321	Casino operations manager	new item
14322	Amusement/Theme park manager	12909 (part)
14323	Cinema manager	12909 (part)
14324	Park/Garden/Nature reserve manager	new item
14325	Discotheque/Karaoke/Nightclub manager	12909 (part)
14329	Other recreation centre managers	12909 (part)
1433	<u>Arts and Cultural Centre Managers</u>	
14330	Arts and cultural centre manager	new item
1439	<u>Other Services Managers Not Elsewhere Classified</u>	
14391	Working proprietor (sports, recreation, arts and other services)	13095 (part)
14399	Other services managers nec	12399 (part), 12909 (part)

SSOC 2010	OCCUPATION	SSOC 2005
2	<u>PROFESSIONALS</u>	
21	SCIENCE AND ENGINEERING PROFESSIONALS	
211	PHYSICAL AND EARTH SCIENCE PROFESSIONALS	
2111	<u>Physicists and Astronomers</u>	
21110	Physicist/Astronomer	21110
2112	<u>Meteorologists</u>	
21120	Meteorologist	21120
2113	<u>Chemists</u>	
21130	Chemist	21130
2114	<u>Geologists, Geophysicists and Other Physical Science Professionals</u>	
21141	Geologist	21191
21142	Geophysicist	21192
21149	Other physical science professionals	21199 (part)
212	MATHEMATICIANS, ACTUARIES AND STATISTICIANS	
2121	<u>Mathematicians, Operations Research Analysts and Actuaries</u>	
21211	Mathematician	21211
21212	Operations research analyst	21212
21213	Actuary	21213
2122	<u>Statisticians</u>	
21220	Statistician	21221
213	LIFE SCIENCE PROFESSIONALS	
2131	<u>Biologists, Botanists, Zoologists and Related Professionals</u>	
21311	Biologist (general)	22111
21312	Botanist	22112
21313	Zoologist	22113
21319	Other biologists, botanists, zoologists and related professionals	22119 (part)

SSOC 2010	OCCUPATION	SSOC 2005
2132	<u>Farming, Forestry and Fishery Advisers</u>	
21321	Agronomist	22131
21322	Horticulturist/Arborist	22132
21323	Plant pathologist	22133
21324	Soil scientist	22134
21325	Floriculturist/Orchidologist	22135
21326	Plant tissue culturist	22136
21327	Aquaculturist	new item
21329	Other farming, forestry and fishery advisers	22139
2133	<u>Environmental Protection and Related Professionals</u>	
21331	Environmental officer (environmental protection)	31621 (part)
21332	Environment research scientist (eg ecologist)	new item
21333	Energy manager	new item
21339	Other environmental protection and related professionals	22119 (part)
2134	<u>Pharmacologists and Related Professionals</u>	
21341	Pharmacologist	22126
21342	Anatomist	22121
21343	Biochemist	22122
21344	Physiologist	22123
21345	Animal scientist	22127
21346	Medical scientist	new item
21349	Other pharmacologists and related professionals	22129
214	ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)	
2141	<u>Industrial and Production Engineers</u>	
21411	Manufacturing engineer (general)	21471
21412	Production engineer	21472
21413	Automation engineer	21473
21414	Quality control/assurance engineer	21479 (part)
21419	Other industrial and production engineers	21479 (part)
2142	<u>Civil Engineers</u>	
21421	Civil engineer (general)	21421
21422	Structural engineer (general)	21422
21423	Building construction engineer	21423
21424	Soil mechanic/Piling engineer	21425
21429	Other civil engineers	21429
2143	<u>Environmental Engineers</u>	
21431	Environmental engineer	21493 (part)
21432	Sewerage/Sanitary engineer	21424

SSOC 2010	OCCUPATION	SSOC 2005
2144	<u>Mechanical Engineers</u>	
21441	Mechanical engineer (general)	21451
21442	Industrial machinery and tools engineer	21452
21443	Marine engineer (shore-based)	21453
21444	Naval architect	21454
21445	Aeronautical engineer	21455
21446	Automotive engineer	21456
21447	Air-conditioning/Refrigeration engineer	21457
21449	Other mechanical engineers	21459
2145	<u>Chemical Engineers</u>	
21451	Chemical engineer (general)	21461
21452	Chemical engineer (petroleum)	21462
21453	Chemical engineer (petrochemicals)	21463
21459	Other chemical engineers	21469
2146	<u>Mining Engineers, Metallurgists and Related Professionals</u>	
21461	Petroleum/Natural gas engineer	21494
21462	Metallurgist	21495
21469	Other mining engineers, metallurgists and related professionals	21499 (part)
2149	<u>Engineering Professionals Not Elsewhere Classified</u>	
21491	Biomedical engineer	21491
21492	Materials engineer	21492
21493	Industrial safety engineer	21493 (part)
21494	Quantity surveyor	21496
21495	Ceramics/Glass technologist	21497
21496	Food and drink technologist	21498
21499	Other engineering professionals nec	21499 (part)
215	ELECTROTECHNOLOGY ENGINEERS	
2151	<u>Electrical Engineers</u>	
21511	Electrical engineer (general)	21431
21512	Power generation and distribution engineer	21432
21513	Lift engineer	21433
21519	Other electrical engineers	21439
2152	<u>Electronics Engineers</u>	
21521	Electronics engineer (general)	21441
21522	Computer engineer	21443
21523	Semi-conductor engineer	21444
21524	Audio and video equipment engineer	21445
21525	Instrumentation engineer	21446
21526	Embedded systems engineer	new item
21529	Other electronics engineers	21449

SSOC 2010	OCCUPATION	SSOC 2005
2153	<u>Telecommunications Engineers</u>	
21530	Telecommunications engineer	21442
216	ARCHITECTS, PLANNERS AND SURVEYORS	
2161	<u>Building Architects</u>	
21610	Building architect	21411
2162	<u>Landscape Architects</u>	
21620	Landscape architect	21413
2164	<u>Town and Related Planners</u>	
21641	Town planner	21412
21649	Other related planners (eg traffic planner)	21419
2165	<u>Surveyors and Cartographers</u>	
21651	Surveyor (general)	21481
21652	Land surveyor	21482
21653	Hydrographic surveyor	21483
21654	Cartographer	21489 (part)
21659	Other surveyors and cartographers	21489 (part)
22	HEALTH PROFESSIONALS	
221	MEDICAL DOCTORS	
2211	<u>Generalist Medical Practitioners</u>	
22110	General practitioner/physician	22211
2212	<u>Specialist Medical Practitioners (Medical)</u>	
22121	Cardiologist	22218 (part)
22122	Dermatologist	22218 (part)
22123	Gastroenterologist	22218 (part)
22124	Internal medicine physician	22218 (part)
22125	Medical oncologist	22218 (part)
22126	Paediatrician	22217
22127	Respiratory physician	22218 (part)
22128	Psychiatrist	22215
22129	Other specialist medical practitioners (medical) (eg endocrinologist, geriatrician, haematologist, infectious diseases physician, neurologist, nuclear medicine physician, rehabilitation physician, renal physician, rheumatologist)	22218 (part), 22219 (part)

SSOC 2010	OCCUPATION	SSOC 2005
2213	<u>Specialist Medical Practitioners (Surgical)</u>	
22131	General surgeon	22212
22132	Cardiothoracic surgeon	22213 (part)
22133	Hand surgeon	22213 (part)
22134	Neurosurgeon	22213 (part)
22135	Orthopaedic surgeon	22213 (part)
22136	Paediatric surgeon	22213 (part)
22137	Plastic surgeon	22213 (part)
22138	Urologist	22213 (part)
22139	Other specialist medical practitioners (surgical)	22213 (part)
2214	<u>Specialist Medical Practitioners (Other Specialisations)</u>	
22141	Anaesthesiologist	22214
22142	Diagnostic radiologist	22219 (part)
22143	Emergency physician	22218 (part)
22144	Obstetrician/Gynaecologist	22216
22145	Ophthalmologist	22213 (part)
22146	Pathologist	22124
22147	Public Health Physician	22218 (part)
22148	Otorhinolaryngologist/Ear, nose, throat (ENT) surgeon	22213 (part)
22149	Other specialist medical practitioners (other specialisations) (eg occupational physician, radiation oncologist)	22219 (part)
223	TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS	
2230	<u>Traditional and Complementary Medicine Professionals</u>	
22301	Traditional chinese medicine physician	32314
22302	Traditional chinese medicine acupuncturist	32315
225	VETERINARIANS	
2250	<u>Veterinarians</u>	
22500	Veterinarian	22125, 22230
226	OTHER HEALTH PROFESSIONALS	
2261	<u>Dentists</u>	
22611	Dentist (general)	22221
22612	Specialised dentist (eg orthodontist)	22222
2262	<u>Pharmacists</u>	
22621	Pharmacist (dispensing)	22241
22629	Other pharmacists	22249

SSOC 2010	OCCUPATION	SSOC 2005
2263	<u>Environmental and Occupational Health and Hygiene Professionals</u>	
22631	Occupational health professional	21493 (part)
22632	Environmental officer (public health)	31621 (part)
22639	Other environmental and occupational health and hygiene professionals	21493 (part)
2269	<u>Other Health Professionals Not Elsewhere Classified</u>	
22690	Other health professionals nec	22290
23	TEACHING PROFESSIONALS	
231	UNIVERSITY, POLYTECHNIC AND HIGHER EDUCATION TEACHERS	
2310	<u>University, Polytechnic and Higher Education Teachers</u>	
23101	University lecturer	23101
23102	Polytechnic lecturer	23102
23109	Other university, polytechnic and higher education teachers	23109
232	VOCATIONAL EDUCATION TEACHERS	
2320	<u>Vocational Education Teachers</u>	
23200	Technical/Vocational/Commercial education institute teacher	23202
233	SECONDARY EDUCATION TEACHERS	
2330	<u>Secondary Education Teachers</u>	
23300	Pre-university (including junior college) and secondary school teacher	23201
234	PRIMARY EDUCATION TEACHERS	
2340	<u>Primary School Teachers</u>	
23400	Primary school teacher	23300
235	OTHER TEACHING PROFESSIONALS	
2351	<u>Education Methods Specialists</u>	
23511	Education methods adviser	23921
23512	Teaching aid specialist (including audio-visual aid specialist)	23922
23519	Other education methods specialists	23929

SSOC 2010	OCCUPATION	SSOC 2005
2352	<u>Special Education Teachers</u>	
23521	Teacher of the blind	23401
23522	Teacher of the deaf	23402
23523	Teacher of the mentally handicapped	23403
23529	Other special education teachers	23409
2359	<u>Other Teaching Professionals Not Elsewhere Classified</u>	
23590	Other teaching professionals nec	23990
24	BUSINESS AND ADMINISTRATION PROFESSIONALS	
241	FINANCE PROFESSIONALS	
2411	<u>Accountants</u>	
24111	Accountant	24101
24112	Auditor (accounting)	24102
2412	<u>Financial and Investment Advisers</u>	
24120	Financial/Investment adviser	24909 (part)
2413	<u>Financial Analysts and Related Professionals</u>	
24131	Financial analyst (eg equities analyst, credit analyst)	24201 (part), 24202
24132	Risk analyst (financial)	24201 (part)
24133	Fund manager	24203
24134	Treasury manager	24204
24139	Other financial analysts and related professionals (eg financial product structurer)	24209
242	ADMINISTRATION PROFESSIONALS	
2421	<u>Management and Business Consultants</u>	
24211	Management consultant	24909 (part)
24212	Business consultant	24909 (part)
2422	<u>Policy Administration Professionals</u>	
24220	Policy administration professional (eg policy analyst)	24909 (part)
2423	<u>Human Resource Professionals</u>	
24231	Human resource consultant (excluding executive search consultant)	24909 (part)
24232	Executive search consultant	24909 (part)

SSOC 2010	OCCUPATION	SSOC 2005
243	MARKETING AND PUBLIC RELATIONS PROFESSIONALS	
2431	<u>Advertising and Marketing Professionals</u>	
24311	Creative director (advertising)	39539 (part)
24312	Market research analyst	24901
2432	<u>Public Relations Professionals</u>	
24320	Public relations consultant and related professional	24909 (part)
25	INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS	
251	SOFTWARE AND APPLICATIONS DEVELOPERS AND ANALYSTS	
2511	<u>Systems Analysts</u>	
25111	Systems designer/analyst	21321, 21322 (part)
25112	IT business process consultant/business analyst	21399 (part)
2512	<u>Software, Web and Multimedia Developers</u>	
25121	Software developer	21323
25122	Web developer	new item
25123	Multimedia (including computer games) developer	21333
2514	<u>Applications and Systems Programmers</u>	
25140	Applications/Systems programmer	21331, 21332
2515	<u>Information Technology Testing and Quality Assurance Professionals</u>	
25151	Information technology testing/quality assurance specialist	21393
25152	Information technology auditor	21391
2516	<u>Information Technology Project Managers</u>	
25160	Information technology project manager	21319 (part)
2519	<u>Software and Applications Developers and Analysts Not Elsewhere Classified</u>	
25190	Software and applications developer and analyst nec	21399 (part)

SSOC 2010	OCCUPATION	SSOC 2005
252	DATABASE AND NETWORK PROFESSIONALS	
2521	<u>Database Designers and Administrators</u>	
25211	Database administrator	21342
25212	Database architect	new item
2522	<u>Network and Computer Systems Administrators</u>	
25220	Network/Computer systems administrator	21341
2523	<u>Computer Network Professionals</u>	
25230	Network/Infrastructure architect and engineer	21322 (part)
2524	<u>Information Technology Security Specialists</u>	
25240	Information technology security specialist	21392
2529	<u>Database and Network Professionals Not Elsewhere Classified</u>	
25290	Database and network professional nec	21399 (part)
26	LEGAL, SOCIAL AND CULTURAL PROFESSIONALS	
261	LEGAL PROFESSIONALS	
2611	<u>Lawyers</u>	
26111	Advocate/Solicitor	25011
26112	Lawyer (excluding advocate and solicitor)	25012
26113	Legal officer	25013
2612	<u>Judges</u>	
26120	Judge	25020
262	LIBRARIANS, ARCHIVISTS AND CURATORS	
2621	<u>Archivists, Curators and Conservators</u>	
26211	Archivist	29111
26212	Curator (art gallery and museum)	29112
26213	Conservator (art works)	29113
2622	<u>Librarians and Related Information Professionals</u>	
26221	Librarian	29121
26229	Other information professionals	29129

SSOC 2010	OCCUPATION	SSOC 2005
263	SOCIAL SCIENCE PROFESSIONALS	
2631	<u>Economists</u>	
26310	Economist	29210
2632	<u>Sociologists, Anthropologists and Related Professionals</u>	
26321	Sociologist	29221
26322	Anthropologist	29222
26323	Social research analyst	21222
2633	<u>Historians, Political Scientists and Other Social Science Professionals</u>	
26331	Historian	29291
26332	Political scientist	29292
26339	Other social science professionals (eg philosopher)	29299
2634	<u>Psychologists</u>	
26340	Psychologist	29293
2635	<u>Social Work and Counselling Professionals</u>	
26351	Social worker (general)	29231
26352	Social worker (delinquency)	29232
26353	Medical social worker	29233
26354	Counsellor (rehabilitation)	29234
26355	Counsellor (drugs and alcohol)	29235
26356	Counsellor (family)	29236
26357	School counsellor	39302
26359	Other social work and counselling professionals	29239
264	AUTHORS, JOURNALISTS AND EDITORS	
2641	<u>Authors and Related Writers</u>	
26411	Author	29311
26412	Script writer	29312
26413	Advertising copywriter	29313
26414	Technical writer	29314
26415	Continuity and script editor	29332
26416	Book editor	29333
26419	Other authors and related writers	29319, 29339
2642	<u>Journalists</u>	
26421	Journalist	29300
26422	Editor (news and periodicals)	29320

SSOC 2010	OCCUPATION	SSOC 2005
265	CREATIVE AND PERFORMING ARTISTS	
2651	<u>Visual Artists</u>	
26511	Sculptor	29341
26512	Painter	29342
26513	Cartoonist	29343
26519	Other visual artists	29349
2652	<u>Musicians, Composers and Singers</u>	
26521	Instrumentalist	29350
26522	Composer/Orchestrator	29371, 29372
26523	Conductor/Director of orchestra/band/choir	29373
26524	Singer	29374
26529	Other musicians, composers and singers	29379
2653	<u>Dancers and Choreographers</u>	
26531	Dancer	29382
26532	Choreographer	29381
2654	<u>Film, Stage and Related Directors and Producers</u>	
26541	Producer (stage, film, television, computer games, video and radio)	29391
26542	Director (stage, film, television and radio)	29392
26543	Artistic director (stage, film, television and radio)	39539 (part)
26544	Producer/Director of commercials	29393
26545	Editor (radio, television and video)	29331
26549	Other film, stage and related directors and producers	29399
2655	<u>Actors</u>	
26550	Actor	29394
29	OTHER PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
290	OTHER PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
2901	<u>Religious Professionals</u>	
29011	Minister of religion	29401
29019	Other religious professionals	29409
2909	<u>Other Professionals Not Elsewhere Classified</u>	
29090	Other professionals nec	29900

SSOC 2010	OCCUPATION	SSOC 2005
3	<u>ASSOCIATE PROFESSIONALS AND TECHNICIANS</u>	
31	PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS	
310	ASSISTANT ENGINEERS	
3100	<u>Assistant Engineers</u>	
31001	Assistant civil and structural engineer	31001
31002	Assistant electrical engineer	31002
31003	Assistant electronics engineer	31003
31004	Assistant mechanical engineer	31004
31005	Assistant chemical engineer	31005
31006	Assistant manufacturing engineer	31006
31009	Other assistant engineers	31009
311	PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS	
3111	<u>Chemical and Physical Science Technicians</u>	
31111	Chemistry technician	31101
31112	Physics technician	31102
31119	Other chemical and physical science technicians	31109
3112	<u>Civil Engineering Technicians</u>	
31121	Civil engineering technician	31211
31122	Structural engineering technician	31212
31123	Building technician	31213
31124	Land surveying technician	31214
31125	Resident technical officer	31215
31129	Other civil engineering and related technicians	31219
3113	<u>Electrical Engineering Technicians</u>	
31131	Electrical engineering technician (general)	31221
31132	Electrical engineering technician (high voltage)	31222
31139	Other electrical engineering technicians	31229
3114	<u>Electronics Engineering Technicians</u>	
31141	Electronics engineering technician (general)	31231
31142	Semi-conductor technician	31234
31143	Audio and video equipment technician	31235
31144	Instrumentation technician	31236
31149	Other electronics engineering technicians	31239

SSOC 2010	OCCUPATION	SSOC 2005
3115	<u>Mechanical Engineering Technicians</u>	
31151	Mechanical engineering technician (general)	31241
31152	Aeronautical engineering technician	31242
31153	Automotive engineering technician	31243
31154	Air-conditioning/Refrigeration engineering technician	31244
31155	Machining/Tooling technician	31245
31156	Tool/Mould designer	31246
31157	Marine surveyor (ship and nautical)	31593
31158	Airworthiness surveyor	31597
31159	Other mechanical engineering technicians	31249
3116	<u>Chemical Engineering Technicians</u>	
31161	Chemical engineering technician (general)	31251
31162	Chemical engineering technician (petroleum and natural gas)	31252
31163	Chemical engineering technician (petrochemicals)	31253
31169	Other chemical engineering technicians	31259
3117	<u>Manufacturing Engineering Technicians</u>	
31171	Manufacturing engineering technician (general)	31261
31172	Production engineering technician	31262
31173	Automation designer	31263
31174	Automation technician	31264
31175	Quality assurance technician	31265
31179	Other manufacturing engineering technicians	31269
3118	<u>Draughtsmen</u>	
31181	Draughtsman (general)	31271
31182	Mechanical draughtsman	31272
31183	Electrical/Electronics draughtsman	31273
31184	Civil/Structural engineering draughtsman	31274
31185	Architectural draughtsman	31275
31186	Marine draughtsman	31276
31189	Other draughtsmen (eg cartographical draughtsman)	31279
3119	<u>Physical and Engineering Science Technicians Not Elsewhere Classific</u>	
31191	Mechatronics technician	31291
31192	Refining/Smelting technician	31292
31193	Physical metallurgy technician	31293
31194	Petroleum and natural gas extraction technician	31294
31195	Electronic pre-press technician	31295
31196	Precision optics technician	31297
31197	Quantity surveying technician	31298
31199	Other physical and engineering science technicians nec	31299

SSOC 2010	OCCUPATION	SSOC 2005
314	LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS	
3141	<u>Life Science Technicians (Except Medical)</u>	
31411	Biological technician	32112
31412	Food science technician	new item
31419	Other life science technicians	32119
3142	<u>Agronomy, Horticultural and Farming Technicians</u>	
31421	Horticultural technician	32121
31422	Plant tissue culture technician	32122
31423	Farming technician (animal production)	32131
31429	Other agronomy, horticultural and farming related technicians	32129, 32139
315	SHIP AND AIRCRAFT CONTROLLERS AND TECHNICIANS	
3151	<u>Ships' Engineers</u>	
31511	Chief engineer officer (ship)	31511
31512	Marine engineer officer	31512
31513	Marine superintendent engineer	31513
3152	<u>Ships' Deck Officers and Pilots</u>	
31521	Ship captain	31521
31522	Ship's navigating officer	31522
31523	Ship pilot	31523
31524	Marine superintendent (deck)	31524
31529	Other ships' deck officers and pilots	31529
3153	<u>Aircraft Pilots and Related Associate Professionals</u>	
31531	Commercial airline pilot	31531
31532	Aircraft pilot (except commercial airline and air force)	31532
31533	Flight navigator	31533
31534	Flight engineer	31534
31535	Flying instructor (except air force)	31535
31539	Other aircraft pilots and related associate professionals	31539
3154	<u>Air Traffic Controllers</u>	
31540	Air traffic controller	31540
3156	<u>Sea Traffic Controllers</u>	
31560	Sea traffic controller	31550

SSOC 2010	OCCUPATION	SSOC 2005
3157	<u>Transport Operations Supervisors</u>	
31571	Air transport service supervisor	31561
31572	MRT service supervisor	31562
31573	Road transport supervisor	31563
31574	Port/Shipping operations supervisor	31564
31579	Other transport operations supervisors	31569
3159	<u>Transport Controllers and Related Workers Not Elsewhere Classified</u>	
31591	Port master/Dockmaster	31591
31592	Port captain	31592
31593	Ship charterer	31599 (part)
31594	Flight operations officer	31594
31595	Air cargo officer	31595
31596	Load-sheet officer (aircraft)	31596
31597	MRT operations officer	31598
31599	Other transport controllers and related workers nec	31599 (part)
316	PREMISES AND PARKS OFFICERS	
3160	<u>Premises and Parks Officers</u>	
31601	Premises and facilities maintenance officer	31612
31602	Landscape operations officer	new item
31603	Parks officer	new item
317	BUILDING, QUALITY AND SAFETY INSPECTORS	
3171	<u>Building and Fire Inspectors</u>	
31711	Fire and safety inspector	31611
31719	Other building and fire inspectors	31619
3172	<u>Quality and Safety Inspectors</u>	
31720	Safety inspector (vehicles, processes and products)	31622 (part)
32	HEALTH ASSOCIATE PROFESSIONALS	
321	MEDICAL AND PHARMACEUTICAL TECHNICIANS	
3211	<u>Medical Imaging and Therapeutic Equipment Technicians</u>	
32111	Medical diagnostic radiographer	32301
32112	Radiation therapist	32302
32113	Sonographer	32303
32114	Medical X-ray technician	32304
32119	Other medical imaging, therapeutic equipment technicians and related associate professionals	32309

Major Group 3: Associate Professionals and Technicians

SSOC 2010	OCCUPATION	SSOC 2005
3212 32120	<u>Medical and Pathology Laboratory Technicians</u> Medical and pathology laboratory technician	32111
3213 32130	<u>Pharmaceutical Technicians</u> Pharmaceutical technician	32290
3214 32141 32142 32143	<u>Medical and Dental Prosthetic Technicians</u> Orthopaedic technician Orthopaedic appliance maker and repairer Dental technician	32311 32312 32313
322	NURSING ASSOCIATE PROFESSIONALS	
3220 32201	<u>Nursing Associate Professionals</u> Registered nurse	32261, 32262, 32263, 32264
32202	Enrolled/Assistant nurse	32269
323	TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS	
3230 32300	<u>Traditional and Complementary Medicine Associate Professionals</u> Traditional and complementary medicine associate professionals (eg homeopath and naturopath)	32319 (part)
324	VETERINARY TECHNICIANS AND ASSISTANTS	
3240 32400	<u>Veterinary Technicians and Assistants</u> Veterinary technician/assistant	32280
325	OTHER HEALTH ASSOCIATE PROFESSIONALS	
3251 32511 32512	<u>Dental Nurses and Therapists</u> Dental nurse Dental/Oral health therapist	32270 32249 (part)
3252 32521 32522	<u>Dietitians and Nutritionists</u> Dietitian Nutritionist	32251 32252

SSOC 2010	OCCUPATION	SSOC 2005
3253	<u>Audiologists and Speech Therapists</u>	
32531	Audiologist	32249 (part)
32532	Speech therapist	32241
3254	<u>Optometrists and Opticians</u>	
32541	Optometrist	32211
32542	Optician	32212
3255	<u>Physiotherapists and Related Associate Professionals</u>	
32551	Physiotherapist	32220
32552	Massage therapist	32242
32559	Other physical therapists and related associate professionals	32249 (part)
3256	<u>Occupational Therapists</u>	
32560	Occupational therapist	32230
3257	<u>Environmental and Occupational Health Inspectors</u>	
32571	Environmental inspector (environmental public health)	31621 (part)
32572	Occupational health inspector	31622 (part)
3259	<u>Health Associate Professionals Not Elsewhere Classified</u>	
32591	Osteopath	32243
32592	Chiropractor	32244
32593	Podiatrist	32319 (part)
32594	Paramedic	32319 (part)
32595	Community health worker	32319 (part)
32599	Other health associate professionals nec	32319 (part)
33	BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS	
331	FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS	
3311	<u>Securities and Finance Dealers and Brokers</u>	
33111	Securities and finance dealer/broker	34120
33112	Foreign exchange dealer/broker	34130
33113	Financial derivatives dealer/broker	34140
33114	Commodities derivatives broker	34150
33119	Other finance dealers and brokers	34160
3312	<u>Credit and Loans Officers</u>	
33120	Credit and loans officer	39229 (part)
3313	<u>Accounting Associate Professionals</u>	
33130	Accounting associate professional (eg assistant accountant, audit (accounting) executive)	34110

SSOC 2010	OCCUPATION	SSOC 2005
3314	<u>Statistical, Mathematical and Actuarial Associate Professionals</u>	
33141	Statistical officer	39211
33142	Research officer (statistical)	39212 (part)
33149	Other statistical, mathematical and actuarial associate professionals	39219
3315	<u>Valuers and Loss Assessors</u>	
33151	Appraiser/Valuer	34231 (part)
33152	Assessor	34231 (part)
332	SALES AND RELATED ASSOCIATE PROFESSIONALS	
3321	<u>Insurance Representatives</u>	
33211	Insurance sales agent/broker (including independent financial planner)	34170
33212	Insurance underwriter	34180
33219	Other insurance representatives	34190
3322	<u>Commercial and Marketing Sales Representatives</u>	
33221	Business development executive	39229 (part)
33222	Marketing and sales representative (technical)	34211
33223	Marketing and sales representative (medical and pharmaceutical products)	34212
33224	Marketing and sales representative (ICT)	34219 (part)
33225	Marketing and sales representative (institutional sales of financial products)	34219 (part)
33226	After sales adviser/Client account service executive	24902, 34213
33229	Other commercial and marketing sales representatives	34219 (part)
3323	<u>Buyers and Purchasing Agents</u>	
33231	Buyer	34221
33232	Purchasing agent	34222
3324	<u>Trade and Ship Brokers</u>	
33241	Trade broker (including oil and bunker trader)	34302
33242	Ship broker	34309 (part)
3329	<u>Sales and Related Associate Professionals Not Elsewhere Classified</u>	
33290	Sales and related associate professional nec	34249
333	BUSINESS SERVICES AGENTS	
3331	<u>Shipping, Clearing and Forwarding Agents</u>	
33311	Clearing and forwarding agent	34303
33312	Ship agent	34309 (part)

SSOC 2010	OCCUPATION	SSOC 2005
3332 33320	<u>Conference and Event Planners</u> Exhibition/Conference/Event planner	34241
3333 33330	<u>Employment Agents and Labour Contractors</u> Employment agent/Labour contractor	34304
3334 33340	<u>Real Estate Agents</u> Real estate agent	34200
3339 33391 33392 33399	<u>Business Services Agents Not Elsewhere Classified</u> Auctioneer Advertising salesman Other business services agents nec (eg sports agent, artiste agent)	34232 34301 34309 (part)
334	ADMINISTRATIVE ASSOCIATE PROFESSIONALS	
3345 33450	<u>Public Relations Associate Professionals</u> Public relations/Corporate communications officer	39225
3346 33461 33462 33463 33464	<u>Human Resource Associate Professionals</u> Personnel/Human resource officer Industrial relations officer Training officer Crewing executive (ship)	39222 39224 39223 new item
3349 33491 33492 33493 33499	<u>Administrative and Related Associate Professionals Not Elsewhere Classified</u> Management executive Research officer (non-statistical) Operations officer (except transport operations) Other administrative and related associate professionals nec	39221 39212 (part) 39229 (part) 39229 (part)
335	GOVERNMENT ASSOCIATE PROFESSIONALS	
3351 33510	<u>Customs and Immigration Officers</u> Customs/Immigration officer	39112, 39119 (part)
3355 33550	<u>Police Inspectors</u> Police inspector	39111 39119 (part)

SSOC 2010	OCCUPATION	SSOC 2005
3359	<u>Government Associate Professionals Not Elsewhere Classified</u>	
33591	Government tax and excise official	39190 (part)
33592	Government social benefits official	39190 (part)
33593	Government licensing official	39190 (part)
33599	Other government associate professionals nec	39190 (part)
34	LEGAL, SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS	
341	LEGAL AND SOCIAL ASSOCIATE PROFESSIONALS	
3411	<u>Legal Associate Professionals</u>	
34110	Legal associate professional (eg paralegal)	39229 (part)
3412	<u>Social Work Associate Professionals</u>	
34121	Youth worker	39301
34129	Other social work associate professionals	39309
342	SPORTS AND FITNESS WORKERS	
3421	<u>Athletes and Sportsmen</u>	
34210	Professional sportsman	39550
3422	<u>Sports Coaches, Instructors, Officials and Other Related Associate Professionals</u>	
34221	Sports coach	39560
34222	Martial arts instructor	39582
34223	Physical fitness instructor (including yoga instructor and aerobics instructor)	39570
34224	Sports official	39581
34229	Other related instructors and associate professionals (eg adventure training instructor and scuba diving instructor)	39589
343	ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS	
3431	<u>Photographers</u>	
34310	Photographer	31411
3432	<u>Interior Designers and Decorators</u>	
34321	Interior designer	39510
34322	Landscape designer	new item
34323	Display artist	39533
34324	Decorator and related worker (eg window dresser and set designer)	39539 (part)

SSOC 2010	OCCUPATION	SSOC 2005
3433	<u>Gallery, Museum and Library Technicians</u>	
34331	Library officer	39226
34332	Gallery, museum and related technician	32113
3435	<u>Fashion, Garment and Product Designers</u>	
34351	Fashion/Garment designer	39520
34352	Product designer	39532
3436	<u>Graphic and Multimedia Designers and Artists</u>	
34361	Graphic designer	39534
34362	Multimedia (including computer games) designer	39535 (part)
34363	Multimedia artist	39535 (part)
34364	Animator	39535 (part)
34369	Other graphic and multimedia designers and artists	39539 (part)
3439	<u>Artistic and Cultural Associate Professionals Not Elsewhere Classified</u>	
34391	Commercial artist	39531
34392	Tattooist	39539 (part)
34399	Other artistic and cultural associate professionals nec	39539 (part)
344	PERFORMING ASSOCIATE PROFESSIONALS	
3441	<u>Radio and Television Presenters and Related Associate Professionals</u>	
34411	Radio presenter	39501
34412	Television presenter	39502
34413	Dubbing artiste	39503
34414	Disc jockey	39504
34419	Other radio and television presenters and related associate professionals	39509
3442	<u>Clowns, Magicians, Acrobats and Related Associate Professionals</u>	
34421	Clown	39541
34422	Magician	39542
34423	Acrobat	39543
34424	Aerialist	39544
34429	Other clowns, magicians and related associate professionals	39549
35	INFORMATION AND COMMUNICATIONS TECHNICIANS	
351	INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATORS AND TECHNICIANS	
3511	<u>Computer Systems Operators</u>	
35110	Computer systems operator	31300

SSOC 2010	OCCUPATION	SSOC 2005
3512	<u>Computer Technicians</u>	
35120	Computer technician (including IT user helpdesk technician)	31233
3514	<u>Website Administrators</u>	
35140	Website administrator/Webmaster	new item
352	TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS AND AUDIO-VISUAL OPERATORS	
3521	<u>Broadcasting Technicians and Audio-Visual Operators</u>	
35211	Broadcasting operations technician	31296
35212	Video camera operator	31412
35213	Television/Motion picture camera operator	31413
35214	Radio and television studio equipment operator	31414
35215	Sound recording equipment operator	31415
35219	Other broadcasting technicians and audio-visual operators	31419
3522	<u>Telecommunications Engineering Technicians</u>	
35220	Telecommunications technician	31232
3523	<u>Telecommunications Equipment Operators</u>	
35231	Telecommunications service supervisor	31421
35232	Radio-telephone operator (land-based)	31422
35233	Ship's radio officer	31423
35234	Flight radio operator	31424
35239	Other telecommunications equipment operators	31429
3529	<u>Optical and Electronic Equipment Operators Not Elsewhere Classified</u>	
35290	Optical and electronic equipment operator nec	31490
36	TEACHING ASSOCIATE PROFESSIONALS	
361	PRE-PRIMARY EDUCATION TEACHERS	
3610	<u>Pre-Primary Education Teachers</u>	
36100	Pre-primary education teacher	33110 (part)

SSOC 2010	OCCUPATION	SSOC 2005
362	EXTRACURRICULUM INSTRUCTORS	
3620	<u>Extracurriculum Instructors</u>	
36201	Language instructor (extracurriculum)	33201
36202	Art and craft instructor (extracurriculum)	29344, 33202
36203	Information technology trainer (extracurriculum)	33203
36204	Music instructor (extracurriculum)	29360
36205	Dance instructor (extracurriculum)	29383
36206	Speech and drama instructor (extracurriculum)	33209 (part)
36209	Other extracurriculum instructors	33209 (part)
369	TEACHING ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
3691	<u>Private Tutors</u>	
36910	Private tutor (academic)	33910
3699	<u>Teaching Associate Professionals Not Elsewhere Classified</u>	
36991	Relief teacher	33991
36999	Other teaching associate professionals nec	33999
39	OTHER ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
391	TRANSLATORS AND INTERPRETERS	
3910	<u>Translators and Interpreters</u>	
39101	Translator	39400
39102	Interpreter	39410
399	OTHER ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
3991	<u>Religious Associate Professionals</u>	
39910	Non-ordained religious associate professional	39600
3999	<u>Other Associate Professionals Not Elsewhere Classified</u>	
39990	Other associate professionals nec	39900

SSOC 2010	OCCUPATION	SSOC 2005
4	<u>CLERICAL SUPPORT WORKERS</u>	
40	CLERICAL SUPERVISORS	
400	CLERICAL SUPERVISORS	
4000	<u>Clerical Supervisors</u>	
40000	Clerical supervisor	new item
41	GENERAL AND KEYBOARD CLERKS	
411	GENERAL OFFICE CLERKS	
4110	<u>General Office Clerks</u>	
41101	Office clerk (general)	41201
41102	Filing and copying clerk	41205
41103	Personnel/Human resource clerk	41206
41109	Other administrative clerks (eg public relations clerk)	41209
412	SECRETARIES AND VERBATIM REPORTERS	
4120	<u>Secretaries and Verbatim Reporters</u>	
41201	Secretary	41111
41202	Verbatim reporter	41112
413	KEYBOARD OPERATORS	
4131	<u>Typists and Word Processing Operators</u>	
41311	Stenographer	41121
41312	Typist	41122
41319	Other word processors and related operators	41129
4132	<u>Data Entry Clerks</u>	
41320	Data entry clerk	41130

SSOC 2010	OCCUPATION	SSOC 2005
42	CUSTOMER SERVICES CLERKS	
421	TELLERS, MONEY COLLECTORS AND RELATED CLERKS	
4211	<u>Bank Tellers and Other Counter Clerks</u>	
42111	Bank teller	42121
42112	Postal service counter clerk	42122
42113	Money changer	42123
42119	Other tellers and counter clerks	42129
4213	<u>Pawnbrokers and Moneylenders</u>	
42131	Pawnbroker	42131
42132	Moneylender	42132
4214	<u>Bill Collectors and Related Workers</u>	
42141	Bill collector	42191
42149	Other bill collectors and related workers	42199 (part)
422	CLIENT INFORMATION CLERKS	
4221	<u>Travel Agency and Related Clerks</u>	
42210	Travel agency/service clerk	42210
4223	<u>Telephone Operators</u>	
42230	Telephone operator	42231, 42239
4224	<u>Receptionists and Information Clerks</u>	
42241	Receptionist (general)	42221
42242	Hotel receptionist	42222
42243	Medical/Dental receptionist	42223
42244	Airport receptionist/clerk	42224
42245	Customer service clerk	42225
42246	Contact centre information clerk	42229 (part)
42249	Other receptionists and information clerks	42229 (part)
4229	<u>Client Information Clerks Not Elsewhere Classified</u>	
42290	Client information clerk nec	42290

SSOC 2010	OCCUPATION	SSOC 2005
43	NUMERICAL AND MATERIAL-RECORDING CLERKS	
431	NUMERICAL CLERKS	
4311	<u>Accounting and Bookkeeping Clerks</u>	
43111	Bookkeeper	41301
43112	Ledger and accounts clerk	41302
43113	Audit clerk	41303
43114	Payroll/Wages clerk	41304
43115	Billing clerk	41305
43116	Purchasing clerk	41309 (part)
43119	Other accounting clerks (eg cost clerk)	41309 (part)
4312	<u>Finance and Insurance Clerks</u>	
43121	Bank operations clerk	41309 (part)
43122	Insurance/Underwriting clerk	41203
43123	Securities clerk	41306
43129	Other finance and insurance clerks (eg credit clerk)	41309 (part)
4314	<u>Statistical Clerks</u>	
43141	Statistical clerk (general)	41411
43142	Enumerator/Market research interviewer	41412
43149	Other statistical clerks	41419
4315	<u>Computer Operations Clerks</u>	
43151	Data processing control clerk	41421
43159	Other computer operations clerks	41429
432	MATERIAL-RECORDING AND TRANSPORT CLERKS	
4321	<u>Stock Clerks</u>	
43211	Stock records clerk	41512
43212	Storekeeper	41513
43219	Other stock clerks	41519 (part)
4322	<u>Production Clerks</u>	
43221	Material planning clerk	41521
43222	Production planning clerk	41522
43229	Other production clerks	41529
4323	<u>Transport Clerks</u>	
43231	Shipping clerk	41511
43239	Other transport clerks (eg land and air transport)	41519 (part)

Major Group 4: Clerical Support Workers

SSOC 2010	OCCUPATION	SSOC 2005
44	OTHER CLERICAL SUPPORT WORKERS	
441	OTHER CLERICAL SUPPORT WORKERS	
4411	<u>Library Clerks</u>	
44110	Library clerk	41204
4417	<u>Legal Clerks</u>	
44170	Legal clerk	41202
4419	<u>Clerical Support Workers Not Elsewhere Classified</u>	
44191	Proofreading clerk	49001
44199	Other clerical support workers nec	49009

SSOC 2010	OCCUPATION	SSOC 2005
5	<u>SERVICE AND SALES WORKERS</u>	
51	PERSONAL SERVICE WORKERS	
511	TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES	
5111	<u>Travel Attendants and Stewards</u>	
51111	Chief steward (ship)	51112
51112	Cabin attendant/steward	51113
5112	<u>Transport Service Inspectors and Related Workers</u>	
51121	Rail station service assistant	51121
51122	Ticket inspector	51122
51129	Other transport service inspectors and related workers (eg bus conductor)	51129
5113	<u>Tour and Other Guides</u>	
51131	Tour guide	51130
51132	Nature guide (including zoo, birdpark and aquarium)	51190 (part)
51133	Theme park guide	51190 (part)
51139	Other guides (eg museum, historical sites)	51190 (part)
512	CHEFS AND COOKS	
5120	<u>Chefs and Cooks</u>	
51201	Chef	51220 (part)
51202	Cook	51220 (part)
513	WAITERS AND BARTENDERS	
5131	<u>Waiters</u>	
51311	Captain waiter/Waiter supervisor	51230 (part)
51312	Waiter	51230 (part)
5132	<u>Bartenders</u>	
51320	Bartender	51240
5133	<u>Bar/Lounge Hostesses</u>	
51330	Bar/Lounge hostess	51250

SSOC 2010	OCCUPATION	SSOC 2005
5139	<u>Waiters and Bartenders Not Elsewhere Classified</u>	
51390	Waiter and bartender nec (eg food checker (catering services))	51290
514	HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS	
5141	<u>Hairdressers, Barbers and Other Related Workers</u>	
51411	Hair stylist/Hairdresser	51310
51412	Barber	51320
51419	Other hair care workers (eg hair therapist/consultant)	51349 (part)
5142	<u>Beauticians and Related Workers</u>	
51421	Beautician	51330 (part)
51422	Manicurist	51341
51423	Make-up artist (stage, film and studio)	51342
5149	<u>Wellness Related Workers Not Elsewhere Classified</u>	
51491	Masseur (non-medical) (including foot reflexologist)	51391
51492	Slimming consultant	51330 (part)
51499	Other wellness related workers nec	51349 (part)
515	HOUSEKEEPERS AND RELATED WORKERS	
5150	<u>Housekeepers and Related Workers</u>	
51501	Housekeeper (hotels and other establishments)	51211
51502	House steward	51212
51503	Housekeeping matron	51213
51509	Other housekeepers and related workers (eg personal butler)	51219
516	MAIL CARRIERS AND SORTING WORKERS	
5160	<u>Mail Carriers and Sorting Workers</u>	
51601	Postal/Courier service supervisor	51501
51602	Postman	51502
51603	Process server	51503
51604	Despatch worker	51509 (part)
51609	Other mail distribution workers (eg mail sorter)	51509 (part)
517	BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS	
5170	<u>Bookmakers, Croupiers and Related Gaming Workers</u>	
51701	Gaming supervisor	new item
51702	Bookmaker/Croupier/Casino dealer and related gaming worker	new item

SSOC 2010	OCCUPATION	SSOC 2005
519	PERSONAL SERVICE WORKERS NOT ELSEWHERE CLASSIFIED	
5191	<u>Astrologers, Fortune-tellers and Related Workers</u>	
51910	Astrologer/Fortune teller and related worker	51399 (part)
5193	<u>Undertakers and Embalmers</u>	
51931	Undertaker	51351
51932	Embalmer	51352
5194	<u>Pet Groomers, Animal Keepers and Trainers</u>	
51941	Pet groomer	39599 (part)
51942	Keeper/Trainer in zoological, bird and aquatic parks	39591
51943	Keeper/Trainer in crocodile farm	39592
51944	Horse trainer	39593
51945	Dog trainer	39594
51949	Other animal/bird keepers and animal care workers	39599 (part)
5195	<u>Driving Instructors</u>	
51950	Driving instructor/tester	83230
5199	<u>Personal Service Workers Not Elsewhere Classified</u>	
51991	Social escort	51392
51999	Other personal service workers nec	51399 (part)
52	SALES WORKERS	
521	STALL SALES WORKERS	
5211	<u>Hawker/Stall Holders (Excluding Prepared Food Or Drinks)</u>	
52110	Hawker/Stall holder (excluding prepared food or drinks)	52220
5212	<u>Hawker/Stall Holders (Prepared Food Or Drinks)</u>	
52120	Hawker/Stall holder (prepared food or drinks)	52210
5213	<u>Newsvendors</u>	
52130	Newsvendor	52230
5219	<u>Other Stall Sales Workers</u>	
52190	Other stall sales workers	52290

SSOC 2010	OCCUPATION	SSOC 2005
522	SHOP SALESPERSONS	
5220	<u>Shop and Store Salespersons</u>	
52201	Sales supervisor	52101
52202	Shop sales assistant	52102
523	CASHIERS AND TICKET CLERKS	
5230	<u>Cashiers and Ticket Clerks</u>	
52301	Cage/Count supervisor	new item
52302	Cashier (general)	42111
52303	Office cashier	42112
52309	Other cashiers, ticket and related clerks	42119, 42199 (part)
524	MODELS, SALES DEMONSTRATORS AND OTHER SALES WORKERS	
5241	<u>Fashion and Other Models</u>	
52411	Fashion model	52301
52419	Other models (eg artist's model)	52309
5242	<u>Sales Demonstrators and Door-to-Door Salespersons</u>	
52421	Sales demonstrator	52103
52422	Salesperson (door-to-door)	52104
5244	<u>Contact Centre Salespersons</u>	
52440	Telemarketer	52105
5249	<u>Sales Workers Not Elsewhere Classified</u>	
52491	Petrol station attendant	52109 (part)
52492	Food service counter attendant	52109 (part)
52499	Sales worker nec (eg ship chandler)	52109 (part)
53	PERSONAL CARE WORKERS	
531	CHILD CARE WORKERS AND TEACHERS' AIDES	
5311	<u>Child Care and Related Workers</u>	
53111	Babysitter (household)	51360 (part)
53112	Confinement nanny	51360 (part)
53113	Child /After school care centre worker	51360 (part)
53114	Child/Youth residential care assistant	51360 (part)

SSOC 2010	OCCUPATION	SSOC 2005
5312	<u>Teachers' Aides</u>	
53120	Teachers' aide	new item
532	HEALTHCARE ASSISTANTS AND OTHER PERSONAL CARE WORKERS	
5320	<u>Healthcare Assistants and Other Personal Care Workers</u>	
53201	Healthcare assistant	new item
53209	Other personal care worker (eg old folks home)	51399 (part)
54	PROTECTIVE SERVICES WORKERS	
541	PROTECTIVE SERVICES WORKERS	
5411	<u>Fire-Fighting and Rescue Officers</u>	
54110	Fire-fighting and rescue officer	51410
5412	<u>Police Officers</u>	
54121	Police officer	51421
54122	Narcotics officer	51422
54123	Auxiliary police officer	51423
5413	<u>Prison Officers</u>	
54130	Prison officer	51430
5414	<u>Security Guards</u>	
54140	Private security officer	51440
5415	<u>Lifeguards</u>	
54150	Lifeguard	51450
5419	<u>Protective Services and Related Workers Not Elsewhere Classified</u>	
54191	Private investigator	51491
54192	Industrial investigator	51492
54193	Insurance investigator	51493
54194	Park ranger	51494
54199	Other protective services and related workers nec	51499

SSOC 2010	OCCUPATION	SSOC 2005
59	SERVICE WORKERS NOT ELSEWHERE CLASSIFIED	
590	SERVICE WORKERS NOT ELSEWHERE CLASSIFIED	
5900	<u>Service Workers Not Elsewhere Classified</u>	
59001	Cinema projectionist	51902
59009	Other service workers nec (eg microphone operator)	51909 (part)

SSOC 2010	OCCUPATION	SSOC 2005
6	<u>AGRICULTURAL AND FISHERY WORKERS</u>	
61	AGRICULTURAL WORKERS	
611	MARKET GARDENERS AND CROP GROWERS	
6111	<u>Vegetable Farm Workers</u>	
61111	Hydroponics farm worker	61011
61112	Mushroom farm worker	61012
61119	Other vegetable farm workers	61019
6113	<u>Gardeners, Horticultural and Nursery Farm Workers</u>	
61131	Flower/Orchid farm worker	61021
61132	Nursery worker	61022
61139	Other horticultural and nursery farm workers	61029
612	ANIMAL PRODUCERS	
6121	<u>Livestock and Dairy Farm Workers</u>	
61210	Livestock/Dairy farm worker	61030
6122	<u>Poultry Farm Workers</u>	
61221	Poultry farm worker (general)	61041
61222	Poultry hatchery worker	61042
61223	Poultry inseminator	61043
61229	Other poultry farm workers (eg poultry vaccinator)	61049
619	AGRICULTURAL WORKERS NOT ELSEWHERE CLASSIFIED	
6190	<u>Agricultural Workers Not Elsewhere Classified</u>	
61900	Agricultural worker nec	61090
62	FISHERY WORKERS	
622	FISHERY WORKERS	
6221	<u>Aquaculture Workers</u>	
62211	Fish/Prawn farm worker	62011
62212	Aquarium fish farm worker	62012
62213	Crocodile farm worker	62013
62219	Other aquatic life cultivation workers (eg oyster farm worker)	62019

Major Group 6: Agricultural and Fishery Workers

SSOC 2010	OCCUPATION	SSOC 2005
6222	<u>Coastal Waters and Deep Sea Fishery Workers</u>	
62220	Coastal waters/Deep sea fishery worker	62020

SSOC 2010	OCCUPATION	SSOC 2005
7	<u>CRAFTSMEN AND RELATED TRADES WORKERS</u>	
71	BUILDING AND RELATED TRADES WORKERS, EXCLUDING ELECTRICIANS	
710	SUPERVISORS AND GENERAL FOREMEN (BUILDING AND RELATED TRADES)	
7100	<u>Supervisors and General Foremen (Building and Related Trades)</u>	
71000	Supervisor/General foreman (building and related trades)	71000
711	BUILDING FRAME AND RELATED TRADES WORKERS	
7112	<u>Bricklayers and Related Workers</u>	
71120	Bricklayer/Blocklayer	71111 71119 (part)
7113	<u>Stone Cutters, Splitters, Carvers and Stonemasons</u>	
71131	Stone cutter/Carver	79001
71132	Stonemason	71119 (part)
7114	<u>Concrete Placers, Concrete Finishers and Related Workers</u>	
71141	Reinforced concreter (general)	71121
71142	Concrete form worker	71122
71143	Cement finisher/Screeder	71124
71144	Cementer (petroleum and gas wells)	71125
71149	Other concrete placers, concrete finishers and related workers	71129
7115	<u>Carpenters and Joiners</u>	
71151	Carpenter	71141
71152	Joiner	71142
7119	<u>Building Frame and Related Trades Workers Not Elsewhere Classified</u>	
71191	Scaffolder	71292
71192	Demolition worker	71293
71193	Cladding/Curtain wall erector	71295
71199	Other building frame and related trades workers nec (eg steeplejack)	71299 (part)
712	BUILDING FINISHERS AND RELATED TRADES WORKERS	
7121	<u>Roofers</u>	
71210	Roofer	71130

Major Group 7: Craftsmen and Related Trades Workers

SSOC 2010	OCCUPATION	SSOC 2005
7122	<u>Floor Layers and Tile Setters</u>	
71220	Floor/Wall tiler	71112, 71143
7123	<u>Plasterers</u>	
71230	Plasterer	71150
7124	<u>Insulation Workers</u>	
71241	Building insulator	71161
71242	Boiler/Pipe insulator	71162
71243	Refrigeration/Air-conditioning equipment insulator	71163
71244	Refractory worker	71164
71249	Other insulation workers	71169
7125	<u>Glaziers</u>	
71250	Glazier	71170
7126	<u>Plumbers, Pipe Fitters and Related Workers</u>	
71261	Plumber	72121
71262	Pipe fitter	72122
71263	Pipe/Drain layer	71294
7127	<u>Air-Conditioning and Refrigeration Mechanics</u>	
71271	Air-conditioning /Refrigeration equipment mechanics	72329 (part)
71272	Air-conditioning/Refrigeration plant installer	72335
7129	<u>Building Finishers and Related Trades Workers Not Elsewhere Classified</u>	
71290	Building finisher and related trades worker nec	71299 (part)
713	<u>PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED WORKERS</u>	
7131	<u>Building Painters and Related Workers</u>	
71311	Building painter	71180
71312	Wall/Ceiling paperhanger	71195
7132	<u>Spray Painters, Varnishers and Other Painters</u>	
71321	Structural steel/Ship painter	71191
71322	Motor vehicle spray painter	71193
71323	Sign painter	71194
71324	Spray painter (except ships, motor vehicles and signs)	71192
71329	Other painters and related workers	71199

SSOC 2010	OCCUPATION	SSOC 2005
7133	<u>Building Maintenance Workers, Building Structure Cleaners and Related Workers</u>	
71331	Building maintenance worker	71291
71332	Building structure cleaner and related worker	71299 (part)
72	METAL, MACHINERY AND RELATED TRADES WORKERS	
720	SUPERVISORS AND GENERAL FOREMEN (METAL, MACHINERY AND RELATED TRADES)	
7200	<u>Supervisors and General Foremen (Metal, Machinery and Related Trades)</u>	
72000	Supervisor/General foreman (metal, machinery and related trades)	72000 (part)
721	SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS	
7211	<u>Metal Moulders and Coremakers</u>	
72111	Metal moulder	72111
72112	Coremaker	72112
7212	<u>Welders and Flame Cutters</u>	
72121	Welder	72131
72122	Flame cutter	72132
7213	<u>Sheet Metal Workers</u>	
72131	Sheet metal worker (general)	72141
72132	Boilermaker	72142
72133	Panel beater	72143
72139	Other sheet metal workers	72149
7214	<u>Structural Metal Preparers and Erectors</u>	
72141	Structural steel worker (workshop)/fabricator	72151
72142	Reinforcing iron worker/Steel reinforcement worker	71123
72143	Structural steel erector	72152
72144	Metal shipwright	72153
72145	Ship plater	72154
72146	Mould lofter	72155
72149	Other structural metal preparers and erectors	72159

SSOC 2010	OCCUPATION	SSOC 2005
7215	<u>Riggers and Cable Splicers</u>	
72151	Hoisting equipment rigger (general)	72161
72152	Rope and cable splicer (general)	72162
72153	Hoisting equipment rigger (construction)	72163
72154	Ship rigger	72164
72155	Aircraft rigger	72165
72156	Oil and gas well drilling rigger	72166
72159	Other riggers and cable splicers	72169
722	BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS	
7221	<u>Blacksmiths, Hammersmiths and Forging-Press Workers</u>	
72211	Blacksmith (general)	72211
72212	Forging-press operator	72212
72219	Other blacksmiths, hammersmiths and forging-press workers	72219
7222	<u>Toolmakers and Related Workers</u>	
72221	Tool and die maker	72221
72222	Jig and gauge maker	72222
72223	Metal pattern maker	72223
72224	Locksmith	72224
72229	Other toolmakers and related workers	72229
7224	<u>Metal Polishers, Wheel Grinders and Tool Sharpeners</u>	
72241	Buffing/Polishing machine operator	72231
72242	Tool grinder (machine tools)	72232
72249	Other metal polishers, grinders and tool sharpeners	72239
723	MACHINERY MECHANICS, FITTERS AND REPAIRERS	
7231	<u>Motor Vehicle Mechanics and Repairers</u>	
72311	Motor vehicle mechanic	72310
72312	Motor vehicle body builder	74222
7232	<u>Aircraft Engine Mechanics and Repairers</u>	
72321	Aircraft engine mechanic	72323
72322	Aircraft engine fitter	72332
7233	<u>Other Machinery Mechanics and Repairers</u>	
72331	Machinery mechanic (general)	72321
72332	Machinery fitter (general)	72331
72333	Industrial/Office machinery mechanic	72322
72334	Marine engine fitter	72333
72335	Machinery erector/installer	72334
72339	Other machinery mechanics and repairers (eg agricultural machinery mechanic, bicycle repairer)	72329 (part), 72339

SSOC 2010	OCCUPATION	SSOC 2005
73	PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS	
730	SUPERVISORS AND GENERAL FOREMEN (PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES)	
7300	<u>Supervisors and General Foremen (Precision, Handicraft, Printing and Related Trades)</u>	
73000	Supervisor/General foreman (precision, handicraft, printing and related trades)	73000
731	HANDICRAFT AND PRECISION WORKERS	
7311	<u>Precision Instrument Makers and Repairers</u>	
73111	Watch and clock assembler	73111
73112	Watch and clock repairer	73112
73113	Optical instrument maker/repairer	73114
73119	Other precision instrument makers and repairers	73113, 73119
7312	<u>Musical Instrument Makers, Repairers and Tuners</u>	
73120	Musical instrument maker/repairer/tuner	73120
7313	<u>Jewellery and Precious Metal Workers</u>	
73131	Jewellery worker (general)	73131
73132	Gem setter/cutter and polisher	73132
73133	Goldsmith/Silversmith	73133
73134	Jewellery engraver	73134
73139	Other jewellery and precious metal workers	73139
7314	<u>Potters and Related Workers</u>	
73141	Pottery worker	73211
73142	Brick and tile moulder	73212
73149	Other potters and related workers	73219
7315	<u>Glass Makers, Cutters, Grinders and Finishers</u>	
73151	Glass blower	73221
73152	Glass lens moulder	73222
73153	Optical glass cutter	73223
73154	Lens grinding machine operator	73224
73155	Lens polishing machine operator	73225
73159	Other glass makers, cutters, grinders and finishers	73229

SSOC 2010	OCCUPATION	SSOC 2005
7316	<u>Sign Writers, Decorative Painters, Engravers and Etchers</u>	
73161	Glass engraver/etcher	73231
73162	Glass and ceramic painter/decorator	73232
73169	Other engravers and related decorative painters	73239
732	PRINTING TRADES WORKERS	
7321	<u>Pre-Press Trades Workers</u>	
73211	Compositor/Typesetter	73310
73212	Stereotyper	73321
73213	Electrotypewriter	73322
73214	Photo-engraver	73331
73215	Photogravure cameraman	73332
73216	Photogravure retoucher	73333
73217	Photogravure etcher	73334
73219	Other pre-press trades workers	73339 (part)
7322	<u>Printers</u>	
73221	Silk screen/Block/Textile printer	73340
73229	Other printers	73339 (part)
74	ELECTRICAL AND ELECTRONIC TRADES WORKERS	
740	SUPERVISORS AND GENERAL FOREMEN (ELECTRICAL AND ELECTRONIC TRADES)	
7400	<u>Supervisors and General Foremen (Electrical and Electronic Trades)</u>	
74000	Supervisor/General foreman (electrical and electronic trades)	72000 (part)
741	ELECTRICAL EQUIPMENT RELATED TRADES WORKERS	
7411	<u>Electricians</u>	
74110	Electrician	72410
7412	<u>Electrical Mechanics and Fitters</u>	
74121	Electrical fitter (general)	72421
74122	Electrical lift, escalator and related equipment fitter	72422
74123	Electrical household appliance repairer	72423
74129	Other electrical mechanics and fitters	72429
7413	<u>Electrical Line Installers and Repairers</u>	
74131	Electrical line installer	72471
74132	Electric cable jointer	72473
74139	Other electrical line installers and repairers	72479

SSOC 2010	OCCUPATION	SSOC 2005
742	ELECTRONICS AND TELECOMMUNICATIONS RELATED TRADES WORKERS	
7421	<u>Electronics Mechanics and Servicers</u>	
74211	Electronics fitter (general)	72431
74212	Consumer audio and video equipment mechanic	72440
74219	Other electronics fitters	72439
7422	<u>Information and Communications Technology Installers and Servicers</u>	
74221	Radio, television and radar broadcasting/transmitting equipment fitter	72432
74222	Computer and related electronic equipment mechanic	72450
74223	Telecommunications lineman	72472
74224	Telecommunications installer/servicer	72460
75	FOOD PROCESSING, WOODWORKING, GARMENT, LEATHER AND OTHER CRAFT AND RELATED TRADES WORKERS	
750	SUPERVISORS AND GENERAL FOREMEN (FOOD PROCESSING, WOODWORKING, GARMENT, LEATHER AND RELATED TRADES)	
7500	<u>Supervisors and General Foremen (Food Processing, Woodworking, Garment, Leather and Related Trades)</u>	
75000	Supervisor/General foreman (food processing, woodworking, garment, leather and related trades)	74000
751	FOOD PROCESSING AND RELATED TRADES WORKERS	
7511	<u>Meat and Fish Preparers</u>	
75111	Slaughterer	74111
75119	Other meat and fish preparers	74119
7512	<u>Bakers, Pastry and Confectionery Makers</u>	
75121	Baker (general)	74121
75122	Bread baker	74122
75123	Pastry and confectionery maker	74123
7515	<u>Food and Beverage Tasters and Graders</u>	
75151	Coffee and tea taster	74131
75159	Other food and beverage tasters and graders	74139
7519	<u>Food Processing and Related Trades Workers Not Elsewhere Classified</u>	
75190	Food processing and related trades worker nec (eg fruit pickler)	74190

SSOC 2010	OCCUPATION	SSOC 2005
752	WOOD TREATERS, CABINET MAKERS AND RELATED TRADES WORKERS	
7521	<u>Wood Treaters</u>	
75211	Kiln drier	74211
75212	Wood-treating worker	74212
75219	Other wood treaters	74219
7522	<u>Cabinet Makers and Wood Related Trades Workers</u>	
75221	Cabinet and furniture maker	74221
75222	Wood furniture finisher	74223
75223	Picture frame maker	74224
75229	Other cabinet makers and wood related trades workers	74229
7529	<u>Furniture Makers and Related Trades Workers Not Elsewhere Classified</u>	
75291	Rattan furniture maker	74291
75299	Other furniture makers and related trades workers nec	74299
753	GARMENT, LEATHER AND RELATED TRADES WORKERS	
7531	<u>Tailors/Dressmakers</u>	
75310	Tailor/Dressmaker	74310
7532	<u>Garment and Related Pattern-Makers and Cutters</u>	
75321	Garment cutter	74320
75322	Garment pattern-maker	74331
75323	Garment marker	74332
75329	Other garment and related pattern-makers and cutters	74339
7534	<u>Upholsterers and Related Workers</u>	
75341	Furniture upholsterer	74341
75342	Vehicle upholsterer	74342
75343	Mattress maker	74343
75349	Other upholsterers and related workers	74349
7536	<u>Shoemakers and Related Workers</u>	
75361	Shoemaker	74401
75362	Orthopaedic footwear maker	74402
75363	Cobbler	74403
75364	Leather goods maker/assembler	74404
75369	Other shoemakers and related workers	74409

Major Group 7: Craftsmen and Related Trades Workers

SSOC 2010	OCCUPATION	SSOC 2005
7539	<u>Garment and Related Trades Workers Not Elsewhere Classified</u>	
75390	Garment and related trades worker nec (eg fellmonger, tent sewer, umbrella maker)	74391, 74392, 74399, 79009 (part)
754	OTHER CRAFT AND RELATED WORKERS	
7540	<u>Other Craft and Related Workers</u>	
75401	Fumigators/Pest and weed controllers	51393
75402	Underwater diver	71299 (part)
75409	Other craft and related workers nec	79009 (part)

SSOC 2010	OCCUPATION	SSOC 2005
8	<u>PLANT AND MACHINE OPERATORS AND ASSEMBLERS</u>	
81	STATIONARY PLANT AND MACHINE OPERATORS	
810	STATIONARY PLANT AND MACHINE SUPERVISORS AND GENERAL FOREMEN	
8100 81000	<u>Stationary Plant and Machine Supervisors and General Foremen</u> Stationary plant and machine supervisor/general foreman	81000, 82000 (part)
811	MINING AND MINERAL PROCESSING PLANT OPERATORS	
8113	<u>Well Drillers and Borers and Other Mining Related Workers</u>	
81131	Well driller (petroleum and gas wells)	81111
81132	Well driller/borer (except oil and gas wells)	81112
81133	Deep-boring machine operator	81113
81139	Other well drillers and borers and other mining related workers	79009 (part), 81119
8114	<u>Cement and Other Mineral Products Machine Operators</u>	
81141	Precast concrete product making machine operator	82121
81142	Asbestos cement product making machine operator	82122
81143	Terrazzo tile making machine operator	82123
81144	Concrete mixing plant operator (including concrete mixer operator)	82124
81145	Concrete pump operator	82129 (part)
81149	Other mineral products and processing machine operators	81900, 82129 (part)
812	METAL PROCESSING, FINISHING AND PRODUCTS PLANT OPERATORS	
8121	<u>Metal Melters, Casters and Rolling Mill Operators</u>	
81211	Ore and metal furnace operator (including furnaceman)	81210, 81221
81212	Centrifugal casting machine operator	81222
81213	Die casting machine operator	81223
81214	Continuous rod casting machine operator (non-ferrous metal)	81224
81215	Metal rolling mill worker	81225
81219	Other metal melters, casters and rolling mill operators	81229
8122	<u>Metal Heat Treating Plant Operators</u>	
81220	Metal heat treating plant operator	81230

SSOC 2010	OCCUPATION	SSOC 2005
8123	<u>Metal Drawers and Extruders</u>	
81231	Wire drawer	81241
81232	Seamless pipe and tube drawer	81242
81233	Extruder operator (metal)	81243
81239	Other metal drawers and extruders	81249
8124	<u>Metal Finishing, Plating and Coating Machine Operators</u>	
81241	Electro-plater	82221
81242	Hot-dip plater	82222
81243	Wire-coating machine operator	82223
81244	Galvaniser	82224
81245	Metal sprayer	82225
81246	Anodiser	82226
81247	Sandblaster/Shotblaster (metal)	82227
81248	Metal cleaner	82228
81249	Other metal finishing, plating and coating machine operators	82229
8125	<u>Machine-Tool Setter-Operators</u>	
81251	Metalworking machine setter-operator (general)	82111
81252	Lathe setter-operator	82112
81253	Milling machine setter-operator	82113
81254	Planing machine setter-operator	82114
81255	Boring/Drilling machine setter-operator	82115
81256	Shaping and honing machine setter-operator	82116
81257	Precision grinding machine setter-operator	82117
81258	Numerical control machine setter-operator	82118
81259	Other machine-tool setter-operators	82119
813	CHEMICAL PROCESSING, CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS	
8131	<u>Chemical Processing and Chemical Products Plant and Machine Operators</u>	
81311	Crushing/Grinding/Chemical mixing equipment operator	81501
81312	Chemical heat treating plant operator	81502
81313	Chemical filtering and separating equipment operator	81503
81314	Chemical still/reactor operator	81504
81315	Synthetic fibre making machine operator	81507
81319	Other chemical processing and chemical products plant and machine operators	81509
8132	<u>Photographic Products Machine Operators</u>	
81320	Photographic products machine operator	82230
8133	<u>Pharmaceutical and Toiletry Products Machine Operators</u>	
81331	Pharmaceutical products machine operator	82210 (part)
81332	Soap-making machine operator	81508
81339	Other toiletry products machine operators	82210 (part)

SSOC 2010	OCCUPATION	SSOC 2005
8139	<u>Chemical Processing, Chemical and Photographic Products Plant and Machine Operators Not Elsewhere Classified</u>	
81390	Chemical processing, chemical and photographic products plant and machine operator nec	82290
814	RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS	
8141	<u>Rubber Products Machine Operators</u>	
81411	Rubber millman	82311
81412	Rubber laminating machine operator	82312
81419	Other rubber products machine operators	82319
8142	<u>Plastic Products Machine Operators</u>	
81420	Plastic products machine operator	82320
8143	<u>Paper and Paperboard Products Machine Operators</u>	
81431	Carton/Paper box making machine operator	82531
81432	Paper product making machine operator	82532
81439	Other paper and paperboard products machine operators	82539
815	TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS	
8151	<u>Fibre Preparing, Spinning and Winding Machine Operators</u>	
81511	Spinner (thread and yarn)	82611
81512	Winder (thread and yarn)	82612
8152	<u>Weaving and Knitting Machine Operators</u>	
81521	Weaving machine operator	82621
81522	Knitting machine operator	82622
8153	<u>Sewing Machine Operators</u>	
81531	Sewing machine operator	82631
81532	Machine embroiderer	82632
8154	<u>Bleaching, Dyeing and Fabric Cleaning Machine Operators</u>	
81541	Textile bleaching machine operator	82641
81542	Dyeing machine operator	82642
81543	Textile washing/Shrinking machine operator	82643
81549	Other bleaching, dyeing and fabric cleaning machine operators	82649

SSOC 2010	OCCUPATION	SSOC 2005
8159	<u>Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified</u>	
81591	Laundry and dry cleaning worker (machine, non-household)	91210 (part)
81599	Other textile, fur and leather products machine operators nec (eg shoemaking and related machine operators)	82690
816	FOOD AND RELATED PRODUCTS MACHINE OPERATORS	
8161	<u>Meat and Fish Products Machine Operators</u>	
81611	Sausage making machine operator	82711
81619	Other meat and fish processing machine operators	82719
8162	<u>Dairy and Confectionery Products Machine Operators</u>	
81621	Dairy product processing machine operator (general)	82721
81622	Dairy product pasteurising machine operator	82722
81623	Butter making machine operator	82723
81624	Ice-cream making machine operator	82724
81625	Chocolate making machine operator	82725
81626	Confectionery making machine operator	82726
81629	Other dairy and confectionery products machine operators	82729
8163	<u>Grain and Spice Milling Machine Operators</u>	
81630	Grain/Spice milling machine operator	82730
8164	<u>Baked and Cereal Products Machine Operators</u>	
81641	Biscuit making machine operator	82741
81642	Macaroni/Noodle/Vermicelli making machine operator	82742
81649	Other baked and cereal products machine operators	82749
8165	<u>Fruit, Vegetable and Nut Products Machine Operators</u>	
81651	Fruit-press operator	82751
81652	Oil pressman (edible oils)	82752
81653	Refining machine operator (oils and fats)	82753
81654	Hydrogenation operator (oils and fats)	82754
81655	Sauce making machine operator	82755
81659	Other fruit, vegetable and nut processing machine operators	82759
8166	<u>Sugar Processing and Refining Machine Operators</u>	
81660	Sugar processing and refining machine operator	82760

SSOC 2010	OCCUPATION	SSOC 2005
8167	<u>Brewers and Wine and Other Beverage Machine Operators</u>	
81671	Germination worker (malting)	82771
81672	Kilnman (malting)	82772
81673	Brewer	82773
81674	Fermenting-room man	82774
81675	Pasteuriser attendant (malt liquor)	82775
81676	Syrup making machine operator	82776
81677	Coffee/Tea blending machine operator	82791
81678	Coffee/Cocoa bean roasting and grinding machine operator	82792
81679	Other brewers and wine and other beverage machine operators	82779
8168	<u>Tobacco Products Machine Operators</u>	
81681	Cigarette making machine operator	82781
81689	Other tobacco products machine operators	82789
8169	<u>Food and Related Products Machine Operators Not Elsewhere Classified</u>	
81691	Bean curd making machine operator	82793
81692	Ice making machine operator	82794
81693	Feed mixing machine operator	82795
81694	Fish feed making machine operator	82796
81699	Other food and related products machine operators nec	82799
817	WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS	
8171	<u>Pulp and Papermaking Plant Operators</u>	
81711	Paper pulp plant operator	81420
81712	Papermaking machine operator	81431
81719	Other pulp and papermaking plant operators	81439
8172	<u>Wood Processing Plant Operators</u>	
81721	Sawyer	81411
81722	Veneer Cutter	81412
81723	Plywood core layer	81413
81724	Plywood press operator	81414
81725	Wood grader	81415
81729	Other wood processing plant operators	81419
8173	<u>Wood Products Machine Operators</u>	
81731	Woodworking machine setter-operator	82401
81732	Precision wood sawyer	82402
81739	Other wood products machine operators	82409

SSOC 2010	OCCUPATION	SSOC 2005
818	OTHER STATIONARY PLANT AND MACHINE OPERATORS	
8181	<u>Glass and Ceramics Plant Operators</u>	
81811	Glass/Ceramics kiln machine operator	81310
81812	Fibreglass maker	81391
81819	Other glass and ceramics plant operators	81399
8182	<u>Steam Engine and Boiler Operators</u>	
81821	Boiler fireman	81621
81822	Ship's fireman	81622
81823	Ship's oiler/greaser	81623
81829	Other steam turbine, boiler and engine operators	81629
8183	<u>Packing, Bottling and Labelling Machine Operators</u>	
81830	Packing/Bottling/Labelling machine operator	82901, 82909 (part)
8184	<u>Printing, Binding and Related Machine Operators</u>	
81841	Printing machine operator	82510
81842	Bookbinding machine operator	82521
81843	Book embossing machine operator	82522
81849	Other printing, binding and related machine operators	82529
8185	<u>Water Treatment and Related Machine Operators</u>	
81851	Stationary engine operator (general)	81691
81852	Compressor operator	81692
81853	Pumping station operator	81693
81854	Water treatment machine operator (waterworks)	81694
81855	Refrigeration system operator	81695
81859	Other water treatment and related machine operators	81699
8186	<u>Power Generating Plant Operators</u>	
81860	Power generating plant operator	81610
8187	<u>Petroleum and Natural Gas Refining Plant Operators</u>	
81871	Petroleum and natural gas refining plant operator	81505
81872	Cylinder filler/tester (compressed and liquefied gases)	81506
8188	<u>Automated Assembly Line and Industrial Robot Operators</u>	
81880	Automated assembly line/Industrial robot operator	81700
8189	<u>Stationary Plant and Machine Operators Not Elsewhere Classified</u>	
81890	Stationary plant and machine operator nec	82909 (part)

SSOC 2010	OCCUPATION	SSOC 2005
82	ASSEMBLERS AND QUALITY CHECKERS	
820	SUPERVISORS AND GENERAL FOREMEN OF ASSEMBLERS AND QUALITY CHECKERS	
8200 82000	<u>Supervisors and General Foremen of Assemblers and Quality Checkers</u> Supervisor/general foreman of assemblers and quality checkers	82000 (part)
821	ASSEMBLERS, QUALITY CHECKERS AND TESTERS	
8212	<u>Electrical and Electronic Equipment Assemblers</u>	
82121	Electrical equipment/component assembler	82811
82122	Electronic equipment/component assembler	82812
82123	Battery assembler	82813
8213	<u>Quality Checkers and Testers</u>	
82131	Electrical/Electronic products quality checker and tester	82821
82132	Mechanical products quality checker and tester	82822
82139	Other quality checkers and testers	82829
8219	<u>Assemblers Not Elsewhere Classified</u>	
82191	Toy assembler	82814
82199	Other assemblers nec (eg plastic products assembler, rubber products assembler)	82819
83	DRIVERS AND MOBILE MACHINERY OPERATORS	
830	MOBILE MACHINERY SUPERVISORS AND GENERAL FOREMEN	
8300 83000	<u>Mobile Machinery Supervisors and General Foremen</u> Mobile machinery supervisor and general foreman	83000
831	MRT TRAIN OPERATORS AND RELATED WORKERS	
8311 83110	<u>MRT Train Operators</u> MRT train operator	83110
8312	<u>Railway Brakers and Related Workers</u>	
83121	Railway brakeman/signalman/shunter	83121
83129	Other railway brakers and related workers	83129

SSOC 2010	OCCUPATION	SSOC 2005
832	CAR AND LIGHT GOODS VEHICLE DRIVERS	
8321	<u>Motorcycle Delivery Men</u>	
83210	Motorcycle delivery man	83210
8322	<u>Car, Taxi and Van Drivers</u>	
83221	Taxi driver	83220
83222	Chauffeur	83241
83223	Van driver	83242
8329	<u>Car and Light Goods Vehicle Drivers Not Elsewhere Classified</u>	
83291	Ambulance driver	83243
83299	Other car and light goods vehicle drivers nec	83249
833	HEAVY TRUCK AND BUS DRIVERS	
8331	<u>Bus and Tram Drivers</u>	
83311	Bus driver	83250
83312	Tram driver	new item
8332	<u>Heavy Truck and Lorry Drivers</u>	
83321	Lorry driver	83260
83322	Trailer-truck driver	83271
83323	Fire-engine driver	83272
83324	Airport mobile equipment driver	83273
83329	Other heavy truck and lorry drivers	83279
834	MOBILE MACHINERY OPERATORS	
8342	<u>Earth Moving and Related Machinery Operators</u>	
83421	Excavating/Trench digging machine operator	83311, 83312
83422	Bulldozer operator	83313
83423	Dredge operator	83314
83424	Pile driver/Drilling machine operator	83315
83425	Road making machine operator	83316
83426	Tunnelling machine operator (including pipe jacking machine operator)	83319 (part)
83429	Other earth moving and related machinery operators	83319 (part)
8343	<u>Crane, Hoist and Related Equipment Operators</u>	
83431	Crane/Hoist operator (general)	83321 (part)
83432	Crane operator (port)	83321 (part)
83439	Other crane, hoist and related equipment operators	83329

Major Group 8: Plant and Machine Operators and Assemblers

SSOC 2010	OCCUPATION	SSOC 2005
8344	<u>Lifting Truck Operators</u>	
83441	Fork lift truck operator	83331
83449	Other lifting truck operators	83339
8349	<u>Mobile Machinery Operators Not Elsewhere Classified</u>	
83490	Mobile machinery operator nec (eg mobile farm plant operator)	83390
835	SHIPS' DECK CREW AND RELATED WORKERS	
8350	<u>Ships' Deck Crew and Related Workers</u>	
83501	Helmsman/Steersman	83402
83502	Deckhand (including lighterman)	83401, 83403, 83404
83509	Other ships' deck crew and related workers	83409

SSOC 2010	OCCUPATION	SSOC 2005
9	<u>CLEANERS, LABOURERS AND RELATED WORKERS</u>	
91	CLEANERS AND RELATED WORKERS	
910	CLEANING SUPERVISORS	
9100	<u>Cleaning Supervisors</u>	
91000	Cleaning supervisor	51909 (part)
911	CLEANERS AND HELPERS IN HOTELS, OFFICES AND OTHER ESTABLISHMENTS	
9112	<u>Cleaners and Helpers in Hotels and Related Establishments</u>	
91121	Room steward/Chambermaid	91221
91122	Hotel cleaner	91229 (part)
91129	Other cleaners and helpers in hotels and related establishments	91229 (part)
9113	<u>Cleaners in Offices and Other Establishments</u>	
91131	Office cleaner	91291
91132	Cleaner (industrial establishment)	91292
91139	Cleaner in offices and other establishments nec	91299 (part)
912	VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS	
9121	<u>Hand Launderers and Pressers</u>	
91210	Hand launderer/presser (non-household)	91210 (part)
9122	<u>Vehicle Cleaners</u>	
91220	Motor vehicle cleaner/polisher	91310
9123	<u>Window Cleaners</u>	
91230	Window cleaner	91299 (part)
9129	<u>Cleaning Workers Not Elsewhere Classified</u>	
91291	Ship/Ship tank cleaner	91391
91292	Aircraft cleaner	91392
91293	Railway carriage cleaner (include MRT, LRT and monorail)	91393
91299	Other cleaning workers nec	91399

SSOC 2010	OCCUPATION	SSOC 2005
913	DOMESTIC HELPERS AND CLEANERS	
9130	<u>Domestic Helpers and Cleaners</u>	
91301	Domestic helper (general)	91101
91302	Launderer (household)	91102
91309	Other domestic helpers and cleaners	91109
92	AGRICULTURAL, FISHERY AND RELATED LABOURERS	
921	AGRICULTURAL, FISHERY AND RELATED LABOURERS	
9214	<u>Park and Garden Maintenance Workers</u>	
92141	Garden labourer	93111
92142	Grass cutter	93112
92143	Tree cutter	93113
92149	Other park and garden maintenance workers (including landscape worker)	93119
9219	<u>Agricultural, Fishery Labourers and Related Workers Not Elsewhere Classified</u>	
92190	Agricultural and fishery labourer and related worker nec (eg farm labourer)	93190
93	LABOURERS AND RELATED WORKERS	
931	CONSTRUCTION LABOURERS AND RELATED WORKERS	
9310	<u>Civil Engineering and Building Construction Labourers</u>	
93100	Civil engineering/Building construction labourer	93300
932	MANUFACTURING LABOURERS AND RELATED WORKERS	
9320	<u>Manufacturing Labourers and Related Workers</u>	
93201	Hand packer	93901
93209	Manufacturing labourer and related worker nec (eg rubber sheets clipper and sorter)	93200
933	TRANSPORT AND STORAGE LABOURERS	
9331	<u>Hand and Pedal Vehicle Drivers</u>	
93310	Hand/Pedal vehicle driver	93420

SSOC 2010	OCCUPATION	SSOC 2005
9333	<u>Material and Freight Handling Workers</u>	
93331	Stevedore	93411
93332	Railway/Road vehicle loader	93412
93333	Aircraft loader	93413
93334	Godown labourer	93414
93335	Lorry attendant	93415
93336	Mover	93419 (part)
93339	Other material and freight handling workers	93419 (part)
94	FOOD PREPARATION AND KITCHEN ASSISTANTS	
941	FOOD PREPARATION AND KITCHEN ASSISTANTS	
9410	<u>Food Preparation and Kitchen Assistants</u>	
94101	Kitchen assistant	91222 (part)
94102	Food/Drink stall assistant	91223
94103	Fast food preparer	91222 (part)
94104	Dish washer/Plate collector	91224
96	REFUSE WORKERS AND OTHER ELEMENTARY WORKERS	
961	REFUSE WORKERS	
9611	<u>Garbage and Recycling Collectors</u>	
96111	Garbage disposal worker	91411
96112	Refuse sorter	91419 (part)
96119	Other garbage and recycling collectors	91419 (part)
9613	<u>Sweepers and Related Workers</u>	
96130	Sweeper and related worker	91420
962	PORTERS, ATTENDANTS AND RELATED WORKERS	
9621	<u>Porters and Related Workers</u>	
96211	Bell captain	92010
96212	Bellboy/Hotel porter	92020
96213	Porter (except hotel)	92030

Major Group 9: Cleaners, Labourers and Related Workers

SSOC 2010	OCCUPATION	SSOC 2005
9625	<u>Attendants</u>	
96251	Office/Library attendant	92041
96252	Laboratory attendant	92042
96253	Hospital/Clinic attendant	92043
96254	Car park attendant	92044
96259	Other attendants (eg swimming pool attendant)	92049
9626	<u>Watchmen and Related Workers</u>	
96261	Building caretaker/Watchman	92051
96262	Doorman	92052
96269	Other watchmen and related workers (eg lighthouse keeper)	92059
9629	<u>Other Elementary Workers</u>	
96291	Leaflet and newspaper distributor/deliverer	51509 (part)
96292	Meter reader/Vending-machine collector	51901
96293	Odd job person	93909 (part)
96299	Other elementary workers nec	93909 (part)

Major Group X: Workers not Classifiable by Occupation

SSOC 2010	OCCUPATION	SSOC 2005
X	<u>WORKERS NOT CLASSIFIABLE BY OCCUPATION</u>	
X1000	Worker reporting unidentifiable or inadequately described occupation	X1000
X2000	Worker not reporting any occupation	X2000
X3000	Singapore Armed Forces personnel	X3000
X4000	Foreign Armed Forces personnel	X4000
X5000	Foreign Diplomatic personnel	X5000

Description of Major Groups

1 Legislators, Senior Officials and Managers

Legislators, senior officials and managers plan, direct, coordinate and evaluate the overall activities of enterprises, governments and other organisations, or of organisational units within them, and formulate and review their policies, laws, rules and regulations.

Tasks performed by legislators, senior officials and managers usually include: formulating and advising on the policy, budgets, laws and regulations of enterprises, governments and other organisational units; establishing objectives and standards and formulating and evaluating programmes and policies and procedures for their implementation; ensuring appropriate systems and procedures are developed and implemented to provide budgetary control; authorising material, human and financial resources to implement policies and programmes; monitoring and evaluating performance of the organisation or enterprise and of its staff; selecting, or approving the selection of staff; ensuring compliance with health and safety requirements; planning and directing daily operations; representing and negotiating on behalf of the government, enterprise or organisational unit managed in meetings and other forums.

2 Professionals

Professionals increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these activities. Competent performance in most occupations in this major group requires skills at the fourth ISCO skill level.

Tasks performed by professionals usually include: conducting analysis and research, and developing concepts, theories and operational methods, and advising on or applying existing knowledge related to physical sciences including mathematics, engineering and technology, and to life sciences including the medical and health services, as well as to social sciences and humanities; teaching the theory and practice of one or more disciplines at different educational levels; teaching and educating handicapped persons; providing various business, legal and social services; creating and performing works of art; providing spiritual guidance; preparing scientific papers and reports. Supervision of other workers may be included.

3 Associate Professionals and Technicians

Associate professionals and technicians perform mostly technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations. Most occupations in this major group require skills at the third ISCO skill level.

Tasks performed by associate professionals and technicians usually include: undertaking and carrying out technical work connected with research and the application of concepts and operational methods in the fields of physical sciences including engineering and technology, life sciences including the medical profession, and social sciences and humanities; initiating and carrying out various technical services related to trade, finance, administration, including administration of government laws and regulations, and to social work; providing technical support for the arts and entertainment participating in sporting activities; executing some religious tasks. Supervision of other workers may be included.

4 Clerical Support Workers

Clerical support workers record, organise, store, compute and retrieve information related, and perform a number of clerical duties in connection with money-handling operations, travel arrangements, requests for information and appointments. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by clerical support workers usually include: stenography, typing, and operating word processors and other office machines; entering data into computers; carrying out secretarial duties; recording and computing numerical data; keeping records relating to stocks, production and transport; keeping records relating to passenger and freight transport; carrying out clerical duties in libraries; filing documents; preparing and checking material for printing; writing on behalf of illiterate persons; performing money-handling operations; dealing with travel arrangements; supplying information requested by clients and making appointments; operating a telephone switchboard. Supervision of other workers may be included.

5 Service and Sales Workers

Service and sales workers provide personal and protective services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments, as well as at stalls and on markets. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by service and sales workers usually include: organising and providing services during travel; carrying out duties in connection with mail services; housekeeping; preparing and serving of food and beverages; caring for children; providing personal and basic health care at homes or in institutions, as well as hairdressing, beauty treatment and companionship; telling fortunes; embalming and arranging funerals; providing security services and protecting individuals and property against fire and unlawful acts; enforcing of law and order; posing as models for advertising, artistic creation and display of goods; selling goods in wholesale or retail establishments, as well as at stalls and on markets; demonstrating goods to potential customers. Supervision of other workers may be included.

6 Agricultural and Fishery Workers

Agricultural and fishery workers grow and harvest field or tree and shrub crops, breed or tend animals, produce a variety of animal husbandry products, cultivate, conserve and exploit forests, breed or catch fish and cultivate or gather other forms of aquatic life in order to provide food, shelter and income for themselves and their households. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by agricultural and fishery workers usually include: preparing the soil; sowing, planting, spraying, fertilising and harvesting field crops; growing fruit and other tree and shrub crops; growing garden vegetables and horticultural products; breeding, raising or tending animals mainly to obtain meat, milk, hair, fur, skin, sericultural, apiarian or other products; cultivating, conserving and exploiting forests; breeding or catching fish; cultivating or gathering other forms of aquatic life; storing and carrying out some basic processing of their produce; selling their products to purchasers, marketing organisations or at markets. Supervision of other workers may be included.

7 Craftsmen and Related Trades Workers

Craftsmen and related trades workers apply specific knowledge and skills in the fields to construct and maintain buildings, form metal, erect metal structures, set machine tools, or make, fit, maintain and repair machinery, equipment or tools, carry out printing work produce or process foodstuffs, textiles, or wooden, metal and other articles, including handicraft goods.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of all stages of the production process, the materials and tools used, and the nature and purpose of the final product. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by craftsmen and related trades workers usually include: constructing, maintaining and repairing buildings and other structures; casting, welding and shaping metal; installing and erecting heavy metal structures, tackle and related equipment; making machinery, tools, equipment, and other metal articles; setting for operators, or setting and operating various machine tools; fitting, maintaining and repairing industrial machinery, including engines and vehicles, as well as electrical and electronic instruments and other equipment; making precision instruments, jewellery, household and other precious-metal articles, pottery, glass and related products; producing handicrafts; executing printing work; producing and processing foodstuffs and various articles made of wood, textiles, leather and related materials. Supervision of other workers may be included.

8 Plant and Machine Operators and Assemblers

Plant and machine operators and assemblers operate and monitor industrial and agricultural machinery and equipment on the spot or by remote control, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble products from component parts according to strict specifications and procedures.

The work mainly calls for experience with and an understanding of industrial and agricultural machinery and equipment as well as an ability to cope with machine-paced operations and to adapt to technological innovations. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by plant and machine operators and assemblers usually include: operating and monitoring mining or other industrial machinery and equipment for processing metal, minerals, glass, ceramics, wood, paper, or chemicals; operating and monitoring machinery and equipment used to produce articles made of metal, minerals, chemicals, rubber, plastics, wood, paper, textiles, fur, or leather, and which process foodstuffs and related products; driving and operating trains and motor vehicles; driving, operating and monitoring mobile industrial and agricultural machinery and equipment; assembling products from component parts according to strict specifications and procedures. Supervision of other workers may be included.

9 Cleaners, Labourers and Related Workers

Cleaners, labourers and related workers perform simple and routine tasks which may require the use of hand-held tools and considerable physical effort. Most occupations in this major group require skills at the first ISCO skill level.

Tasks performed by cleaners, labourers and related workers usually include: cleaning, restocking supplies and performing basic maintenance in apartments, houses, kitchens, hotels, offices and other buildings; washing cars and windows; helping in kitchens and performing simple tasks in food preparation; delivering messages or

goods; carrying luggage and handling baggage and freight; stocking vending machines or reading and emptying meters; collecting and sorting refuse; sweeping streets and similar places; performing various simple farming, fishing, hunting or trapping tasks; performing simple tasks connected with construction and manufacturing including product-sorting; packing and unpacking produce by hand and filling shelves; pedalling or hand-guiding vehicles to transport passengers and goods. Supervision of other workers may be included.

X Workers not Classifiable by Occupation

The following types of working persons, where information on their job duties are often difficult to obtain are classified in major group X:

- Workers reporting inadequately described occupations
- Workers not reporting any occupation
- Singapore Armed Forces personnel
- Foreign armed forces personnel stationed in Singapore
- Foreign diplomatic personnel stationed in Singapore

Description of Unit Groups

1111 Legislators

Legislators determine, formulate and direct government policies and make, ratify, amend or repeal laws, public rules and regulations.

Tasks include:

- presiding over or participating in the proceedings of parliament
- determining, formulating and directing government policies
- making, ratifying, amending or repealing laws, public rules and regulations
- investigating matters of concern to the public and promoting the interests of the constituencies which they represent
- as members of the government, directing senior administrators and officials of government departments and statutory boards in the interpretation and implementation of government policies

This unit group includes:

- Government minister
- Member of parliament
- President (government)

Notes Legislators who are principally engaged in other full-time occupations are classified in the group appropriate to their main occupations and not here.

1112 Senior Government and Statutory Board Officials

Senior government and statutory board officials advise governments on policy matters, and oversee the interpretation and implementation of government policies and legislation by government departments and agencies.

Tasks include:

- advising government and legislators on policy matters
- advising on the preparation of government budgets, laws and regulations, including amendments
- establishing objectives for government departments or statutory boards in accordance with government legislation and policy
- formulating or approving and evaluating programmes and procedures for the implementation of government policies in conjunction or consultation with government
- ensuring appropriate systems and procedures are developed and implemented to provide budgetary control
- co-ordinating activities with other senior government officials
- making presentations to legislative and other government committees regarding policies programmes or budgets
- overseeing the interpretation and implementation of government policies and legislation by government departments and statutory boards

This unit group includes:

- Ambassador (government)
- High commissioner (government)
- Director-General
- Permanent secretary (government)
- Deputy secretary (government)
- Chairman (statutory board)
- Chief executive (statutory board)
- Commissioner of Civil Defence Force

Notes Government employees who are seconded to manage government-owned or government-controlled industrial, commercial or other business enterprises are excluded and classified in the same group as managers of similar private establishments. Government employees performing mainly professional functions are classified in Major Group 2.

1114 **Senior Officials of Political Party Organisations**

Senior officials of political party organisations determine, formulate and direct the implementation of policies of political-party organisations.

Tasks include:

- determining and formulating the policies, rules and regulations of the organisation
- planning, directing and coordinating the general functioning of the organisation
- negotiating on behalf of the organisation, its members and clients
- promoting the interests of the organisation, its members and clients before the legislature, government or general public
- planning, organising and directing sections charged with implementing the organisation's policies, rules and regulations
- ensuring appropriate systems and procedures are developed and implemented to provide budgetary control

1115 **Senior Officials of Employers', Workers' and Other Economic-Interest Organisations**

Senior officials of employers", workers" and other economic-interest organisations determine, formulate and direct the implementation of policies of employers", workers" and other economic-interest organisations.

Tasks include:

- determining and formulating the policies, rules and regulations of the organisation
- planning, directing and coordinating the general functioning of the organisation
- negotiating on behalf of the organisation, its members and clients
- promoting the interests of the organisation, its members and clients before the legislature, government or general public

- planning, organising and directing sections charged with implementing the organisation's policies, rules and regulations
- ensuring appropriate systems and procedures are developed and implemented to provide budgetary control

This unit group includes:

- General secretary of labour union
- President of business federation

1116 **Senior Officials of Humanitarian and Other Special-Interest Organisations**

Senior officials of humanitarian and other special-interest organisations determine, formulate and direct the implementation of policies of humanitarian and other special-interest organisations, such as humanitarian or charitable organisations, or sports associations, and represent their organisations and act on their behalf.

Tasks include:

- determining and formulating the policies, rules and regulations of the organisation
- planning, directing and coordinating the general functioning of the organisation
- negotiating on behalf of the organisation, its members and clients
- promoting the interests of the organisation, its members and clients before the legislature, government or general public
- planning, organising and directing sections charged with implementing the organisation's policies, rules and regulations
- ensuring appropriate systems and procedures are developed and implemented to provide budgetary control

This unit group includes:

- President of sports association
- President of humanitarian organisation

1120 **Managing Directors, Chief Executives and General Managers**

Managing directors, chief executives and general managers participate as members of boards of directors to formulate and review the policies and plan, direct, coordinate and evaluate the overall activities of enterprises or organisations with the support of other managers.

Tasks include:

- planning, directing and coordinating the general functioning of an enterprise or organisation
- determining objectives, strategies, policies and programmes for the enterprise or organisation
- providing overall leadership and management to the enterprise or organisation
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- authorising material, human and financial resources to implement organisational policies and programmes
- monitoring and evaluating performance of the organisation or enterprise against established objectives and policies

- consulting with senior subordinate staff and reviewing recommendations and reports
- representing the organisation at official occasions and board meetings, in negotiations, at conventions, seminars, public hearings and forums
- ensuring the organisation complies with relevant legislation and regulations

This unit group includes:

- Chief executive
- Company board director
- Company chairman
- Chief operating officer
- General manager
- Managing director

Regional managers and other senior managers who coordinate and supervise the activities of subordinate managers who have a diverse range of functional responsibilities are included in Unit Group 1120 „Managing directors, chief executives and general managers“.

Notes Managers responsible for particular specialised functions within a specific geographic area are however excluded from this unit group. For example, regional sales managers are classified in Unit Group 1221 „Sales, marketing and business development managers“. Jobs whose principal responsibility is to participate as a member of the board of directors of one or more enterprises or organisations are included in Unit Group 1120 „Managing directors, chief executives and general managers“. Chief executives of government owned enterprises are also included in this unit group.

1211 **Finance and Administration Managers**

Finance and administration managers plan, direct and coordinate the financial and administrative operations of an enterprise or organisation, in consultation with senior managers and with managers of other departments or sections.

Tasks include:

- planning, directing and coordinating the financial and administrative operations of an enterprise or organisation
- assessing the financial situation of the enterprise or organisation, preparing budgets and overseeing financial operations
- consulting with the chief executive and with managers of other departments or sections
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- establishing and directing operational and administrative procedures
- developing and implementing administrative and procedural statements and guidelines for use by staff in the organisation
- providing information and support for the preparation of financial reports and budgets
- representing the enterprise or organisation in dealings with outside bodies

This unit group includes:

- Administration manager
- Finance manager
- Financial controller

This unit group excludes:

- Financial and insurance services manager (1346)

1212 **Human Resource Managers**

Human resource managers, plan, direct and coordinate policies concerning the personnel and industrial relations of an enterprise or organisation, or of enterprises that provide human resource services to other enterprises and organisations.

Tasks include:

- planning, directing and coordinating the personnel and industrial relations activities, policies and practices of an enterprise or organisation
- planning and organising procedures for recruitment, training, promotion, determination of wage structures and negotiations about wages, liaison and consultation with workers and related personnel matters
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- establishing and directing operational and administrative procedures
- overseeing the development and implementation of management information systems
- ensuring compliance with standards and legislation relating to employees rights, , equal opportunity and related concerns
- overseeing the selection, training and performance of staff for the entire enterprise or organisation
- consulting with senior management and with managers of other departments
- representing the enterprise or organisation in dealings with outside bodies

This unit group includes:

- Human resource manager
- Industrial relations manager
- Personnel manager
- Training manager

1213 Policy and Planning Managers

Policy and planning managers plan, organise, direct and coordinate policy advice and strategic planning activities within government or for non-government organisations and private sector agencies, or manage the activities of enterprises that provide policy and strategic planning services.

Tasks include:

- developing, implementing and monitoring strategic plans, programmes, policies, processes, systems and procedures to achieve goals, objectives and work standards
- developing, directing, administering and participating in policy research and analysis
- coordinating the implementation of policies and practices
- establishing activity measures and measurements of accountability
- planning and directing daily operations
- leading and managing the activities of policy development and strategic planning staff
- representing the enterprise or organisation in negotiations, and at conventions, seminars, public hearings and forums
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- consulting with managers of other departments and with representatives of clients

This unit group includes:

- Policy and planning manager
- Strategic planning manager
- Corporate planning manager

1219 Business Services and Administration Managers Not Elsewhere Classified

This unit group covers business services and administration managers not classified elsewhere in Minor Group 121 'Business services and administration managers'. For instance, the group includes occupations such as facilities maintenance manager.

Tasks include:

- providing operational support and advice to senior management on matters such as the management of building facilities
- providing information and support for the preparation of financial reports and budgets
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- planning and directing daily operations

This unit group includes:

- Cleaning services manager
- Facilities manager
- Landscape operations manager

1221 Sales, Marketing and Business Development Managers

Sales, marketing and business development managers plan, direct and coordinate the sales and marketing activities of an enterprise or organisation, or of enterprises that provide sales and marketing services to other enterprises and organisations.

Tasks include:

- planning and organising special sales and marketing programmes based on sales records and market assessments
- determining price lists, discount and delivery terms, sales promotion budgets, sales methods, special incentives and campaigns
- establishing and directing operational and administrative procedures related to sales and marketing activities
- leading and managing the activities of sales and marketing staff
- establishing and managing budgets and controlling expenditure to ensure the efficient use of resources
- representing the enterprise or organisation at sales and marketing conventions, and trade exhibitions

This unit group includes:

- Commercial manager
- Marketing manager
- Sales manager
- Business development manager

1222 Advertising and Public Relations Managers

Advertising and public relations managers plan, direct and coordinate the advertising, public relations and public information activities of enterprises and organisations, or of enterprises that provide related services to other enterprises and organisations.

Tasks include:

- planning, directing and coordinating the advertising and public relations activities of an enterprise or organisation
- negotiating advertising contracts with clients or with newspapers, radio and television stations, sports and cultural organisations and advertising agencies
- planning and managing information programmes to inform legislators, the mass media and the general public about the plans, accomplishments and points of view of the enterprise or organisation
- leading and managing the activities of advertising and public relations staff

This unit group includes:

- Advertising manager
- Customer relations manager
- Public relations manager
- Publicity manager

1223 Research and Development Managers

Research and development managers plan, direct and coordinate the research and development activities of an enterprise or organisation or of enterprises that provide related services to other enterprises and organisations.

Tasks include:

- planning, directing and coordinating research and development activities, in-house or commissioned from external research organisations, to develop new or improved technical processes, products or utilisation of materials
- planning the overall research and development programme of an enterprise or organisation, specifying goals and budgetary requirements
- leading and managing the activities of research and development staff

This unit group includes:

- Research and development manager

1224 Customer Service and Call Centre Managers

Customer service and call centre managers plan, organise and control the operations of call centres, review customer services, and maintain sound customer relations.

Tasks include:

- developing and reviewing policies, programmes and procedures concerning customer relations and goods and services provided
- ensuring operational efficiency within a call centre
- providing direction and feedback to team members and assisting with recruitment
- managing, motivating and developing staff providing customer services
- planning and implementing after-sales services to follow up with customer satisfaction, ensure performance of goods purchased, and modify and improve services provided
- liaising with other organisational units, service agents and customers to identify and respond to customer expectations

This unit group includes:

- Customer service manager
- Call centre manager

1310 Production Managers In Agriculture and Fisheries

Production managers in agriculture and fisheries plan, direct, and coordinate growing and production of crops and fish.

Tasks include:

- monitoring market activity and planning production to meet contract requirements and market demand
- establishing and managing budgets, monitoring production output and costs, recording information such as farm management practices and preparing financial and operational reports
- conferring with buyers to arrange for the sale of crops and fish
- contracting with farmers or independent owners for production of crops and livestock, or for management of production
- contracting with fishing skippers or owners of vessels and aquaculture farms for fishing and aquaculture operations, or for management of production
- planning the type, intensity and sequence of farm operations (e.g. determining the best times for planting, spraying and harvesting)
- analysing soil to determine types and quantities of fertiliser required for maximum production
- purchasing machinery, equipment, and supplies such as tractors, seed, fertiliser and chemicals
- identifying and controlling environmental toxins, weeds, pests and diseases
- organising farming operations such as maintaining buildings, water supply systems and equipment
- directing and coordinating activities such as planting, irrigation, chemical application, harvesting and grading
- directing and monitoring trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques
- inspecting plantations and fields to determine maturity dates of crops, or to estimate potential crop damage from weather
- overseeing the selection, training and performance of workers and contractors

This unit group includes:

- Farm production manager
- Agriculture manager
- Working proprietor (agriculture)

This unit group excludes:

- Poultry farm worker (6122)
- Fish farm worker (6221)

1321 Manufacturing Managers

Manufacturing managers plan, direct, and coordinate manufacturing production activities of large enterprises or as the manager of a small manufacturing company.

Tasks include:

- determining, implementing and monitoring production strategies, policies and plans
- planning details of production activities in terms of output quality and quantity, cost, time available and labour requirements
- controlling the operation of production plant and quality procedures through planning of maintenance, designation of operating hours and supply of parts and tools
- establishing and managing budgets, monitoring production output and costs, and adjusting processes and resources to minimise costs
- consulting with and informing other managers about production matters
- overseeing the acquisition and installation of new plant and equipment
- controlling the preparation of production records and reports
- coordinating the implementation of occupational health and safety requirements
- identifying business opportunities and determining products to be manufactured
- researching and implementing regulatory and statutory requirements affecting manufacturing operations and the environment
- overseeing the provision of quotes for the manufacture of specialised goods and establishing contracts with customers and suppliers

This unit group includes:

- Manufacturing plant manager
- Production and operations manager (manufacturing)
- Working proprietor (manufacturing)

1323 Construction Managers

Construction managers plan, direct and coordinate the construction of civil engineering projects, buildings and dwellings.

Tasks include:

- negotiating with building owners, property developers and subcontractors involved in the construction process to ensure projects are completed on time and within budget
- preparing tenders and contract bids
- operating and implementing coordinated work programmes for sites
- ensuring adherence to building legislation and standards of performance, quality, cost and safety
- arranging submission of plans to local authorities
- building under contract, or subcontracting specialised building services
- arranging building inspections by relevant authorities
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources
- overseeing the selection, training and performance of staff and subcontractors

This unit group includes:

- Construction project manager
- Working proprietor (construction)

1324 Transport, Supply, Distribution and Related Managers

Transport, supply, distribution and related managers plan, direct and coordinate the supply, transportation, storage and distribution of goods.

Tasks include:

- determining, implementing and monitoring purchasing, storage and distribution strategies, policies and plans
- preparing and implementing plans to maintain required stock levels at minimum cost
- negotiating contracts with suppliers to meet quality, cost and delivery requirements
- monitoring and reviewing storage and inventory systems to meet supply requirements and control stock levels
- operating recording systems to track all movements of goods and ensuring re-ordering and re-stocking at optimal times
- liaising with other departments and customers concerning requirements for outward goods and associated forwarding transportation
- establishing and directing operational and administrative procedures

This unit group includes:

- Logistics manager
- Distribution manager
- Transport operations manager
- Warehousing manager
- Procurement and purchasing manager
- Working proprietor (transport)

1329 Production and Operations Manager Not Elsewhere Classified

This unit group covers production and operations manager not classified elsewhere in Minor Group 132 „Manufacturing, mining, construction and distribution managers“.

Tasks include:

- planning details of activities in terms of output quality and quantity, cost, timeliness and labour requirements
- conferring with other managers to set production quotas, plan extraction sites and develop policies for the removal of raw materials
- controlling the operation of plant and quality procedures through planning of maintenance, designation of operating hours and supply of equipment
- preparing tenders and contract bids
- establishing and managing budgets, monitoring production output and costs, and adjusting processes and resources to minimise costs
- overseeing the acquisition and installation of new plant and equipment
- controlling the preparation of production records and reports
- coordinating the implementation of health and safety requirements

This unit group includes:

- Electricity power plant manager
- Gas works manager
- Incinerator plant manager
- Shipyard manager
- Quality assurance manager
- Mining manager
- Water works manager

1330 Information and Communications Technology Service Managers

Information and communications technology service managers plan, direct and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems within organisations.

Tasks include:

- consulting with users, management, vendors, and technicians to assess computing needs and system requirements and specifying technology to meet those needs
- formulating and directing information and communication technology (ICT) strategies, policies and plans
- directing the selection and installation of ICT resources and the provision of user training
- directing ICT operations, analysing workflow, establishing priorities, developing standards and setting deadlines
- overseeing the security of ICT systems
- assigning, reviewing, managing and leading the work of systems analysts, programmers, and other computer-related workers
- establishing and directing operational and administrative procedures
- representing the enterprise or organisation at ICT related conventions, seminars and conferences

This unit group includes:

- Chief information officer
- Information systems manager
- IT service manager
- Network and communications manager
- Software and applications manager
- Working proprietor (information and communications technology services)

1341 Child Care Services Managers

Child care services managers plan, direct, coordinate and evaluate the provision of care for children in before-school, after-school, vacation and day care centres and services.

Tasks include:

- overseeing and coordinating the provision care for children in before-school, after-school, day and vacation care centres
- directing and supervising child carers in providing care and supervision for young children
- managing physical facilities and making sure all buildings and equipment are maintained to ensure the centre is a safe area for children, staff and visitors
- reviewing and interpreting government codes and developing procedures to meet codes (e.g. concerning safety and security)
- preparing and maintaining records and accounts for a child care centre
- recruiting and evaluating staff and coordinating their professional development

This unit group includes:

- Child care services manager

1342 Health Services Managers

Health services managers plan, direct, coordinate and evaluate the provision of clinical and community healthcare services in hospitals, clinics, public health agencies and similar organisations.

Tasks include:

- providing overall direction and management for the service, facility, organisation or centre
- directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance, and other personnel
- establishing objectives and evaluative or operational criteria for units they manage
- developing, implementing and monitoring procedures, policies and standards for medical, nursing, technical and administrative staff
- monitoring the use of diagnostic services, inpatient beds, facilities, and staff to ensure effective use of resources and assess the need for additional staff, equipment, and services
- liaising with other health and welfare service providers, boards and funding bodies to coordinate the provision of services
- advising government bodies about measures to improve health and welfare services and facilities
- representing the organisation in negotiations, and at conventions, seminars, public hearings and forums

This unit group includes:

- Clinical director
- Director of nursing

This unit group excludes:

- Aged care services manager (1343)

1343 Aged Care Services Managers

Aged care services managers plan, direct, coordinate and evaluate the provision of residential and personal care services for individuals and families who are in need of such services due to the effects of ageing.

Tasks include:

- providing overall direction and management for a service, facility, organisation or centre
- directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance and other personnel
- establishing objectives and evaluative or operational criteria for units they manage
- developing, implementing and monitoring procedures, policies and standards for nursing, personal care, technical, and administrative staff
- coordinating and administering welfare programmes and care services for the elderly
- controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services
- liaising with other health and welfare providers, boards and funding bodies to coordinate the provision of services
- representing the organisation in negotiations, and at conventions, seminars, public hearings and forums

This unit group includes:

- Aged care service manager
- Nursing home director

This unit group excludes:

- Health services manager (1342)

1344 **Social Welfare Managers**

Social welfare managers plan, direct and coordinate the provision of social and community service programmes such as income support, family assistance, children's services and other community programmes and services.

Tasks include:

- providing overall direction and management for a service, facility, organisation or centre
- developing, implementing and monitoring procedures, policies and standards for staff
- monitoring and evaluating resources devoted to the provision of welfare, housing, and other social services
- controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services
- liaising with other welfare and health services providers, boards and funding bodies to discuss areas of health and welfare service cooperation and coordination
- advising government bodies about measures to improve welfare services and facilities
- representing the organisation in negotiations and at conventions, seminars, public hearings and forums

This unit group includes:

- Social welfare manager

1345 **Education Managers**

Education managers plan, direct, coordinate and evaluate the educational and administrative aspects of education services, primary and secondary schools, colleges and faculties and departments in universities and other educational institutions.

Tasks include:

- determining educational programmes based on frameworks established by education authorities and governing bodies
- implementing systems and procedures to monitor school performance and student enrolments
- directing administrative and clerical activities concerning student admissions and educational services
- providing leadership and guidance to teaching, academic and administrative staff as well as to student
- evaluating the work of teachers and lecturers by visiting classrooms, observing teaching methods, reviewing instructional objectives and examining learning materials
- promoting the educational programme and representing the service or institution in the wider community
- supervising the maintenance of educational facilities

- developing and enforcing a disciplinary code to create a safe and conducive environment for students and teachers
- controlling selection, training and supervision of staff

This unit group includes:

- School principal
- Registrar (institution of higher learning)
- Dean (institution of higher learning)

1346 **Financial and Insurance Services Managers**

Financial and insurance services managers plan, direct and coordinate the provision of financial and insurance services in financial institutions, such as banks, building societies, credit unions and insurance companies. They provide advice and assistance to clients on financial and insurance matters.

Tasks include

- planning, directing and coordinating the activities of staff in the branch
- establishing and maintaining relationships with individual and business customers
- providing advice and assistance to customers on their financial and insurance needs and with matters such as changes in law that may affect customers
- examining, evaluating and processing loan and insurance applications
- monitoring credit extension decisions
- conducting financial investigations
- overseeing the flow of cash and financial instruments, and the preparation of financial and regulatory reports
- approving or rejecting, or coordinating the approval or rejection of lines of credit commercial, real estate and personal loans
- coordinating cooperation with other branches of the company

This unit group includes:

- Bank manager
- Insurance services manager
- Risk manager

This unit group excludes:

- Finance manager (1211)
- Financial and investment adviser (2412)
- Financial analyst (2413)
- Credit and loans officer (3312)
- Insurance agent (3321)

1349 Professional, Financial, Community and Social Services Managers Not Elsewhere Classified

This unit group covers professional, financial, community and social services managers not classified elsewhere in Minor Group 134 „Professional, financial, community and social services managers“. For instance, managers responsible for the provision of policing, corrective, library, legal and fire services are classified here.

Tasks include:

- providing overall direction and management for a service, facility, organisation or centre
- developing, implementing and monitoring procedures, policies and standards for staff
- directing, supervising and evaluating the work activities of professional technical, clerical, service, maintenance and other personnel
- monitoring and evaluating resources devoted to the provision of services
- controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services
- planning, directing and coordinating the provision of services
- coordinating cooperation with other service provision agencies in the same or related fields

This unit group includes:

- Library and archive manager
- Corrective services manager
- Police superintendent

Notes Professional services managers are responsible for planning, directing and coordinating the provision of specialised professional and technical services. Specialised qualifications and extensive experience relevant to one or more occupations classified in Major Group 2 „Professionals“ or Major Group 3 „Technicians and associate professionals“ are usually required.

1411 Hotel Operations and Lodging Services Managers

Hotel operations and lodging services managers plan, organise and direct the operations of hotels, motels and similar establishments to provide guest accommodation and other services.

Tasks include:

- directing and overseeing reservation, reception, room service and housekeeping activities
- supervising security arrangements and garden and property maintenance
- planning and supervising bar, restaurant, function and conference activities held in the hotel
- observing liquor, gaming and other laws and regulations
- assessing and reviewing customer satisfaction
- overseeing accounting and purchasing activities
- providing guests with local tourism information and arranging tours and transportation

This unit group includes:

- Hotel manager
- Motel manager
- Youth hostel manager

This unit group excludes:

- Restaurant manager (1412)

1412 **Food and Beverages Services Managers**

Food and beverages services managers plan, organise and direct the operations of cafes, restaurants, catering companies and related establishments to provide dining and catering services.

Tasks include:

- planning menus in consultation with chefs and cooks
- planning and organising special functions
- arranging the purchasing and pricing of goods according to budget
- ensuring dining, kitchen and food storage facilities comply with health regulations and are clean, functional and of suitable appearance
- conferring with customers to assess their satisfaction with meals and service
- selecting, set staff work schedules, training and supervising waiting and kitchen staff
- negotiating arrangements with clients and suppliers

This unit group includes:

- Cafe manager
- Fast food restaurant manager
- Restaurant manager
- Catering services manager
- Working proprietor (restaurant and other catering services)

This unit group excludes:

- Chef (5120)

1420 **Retail and Wholesale Trade Managers**

Retail and wholesale trade managers, plan, organise, co-ordinate and control the operations of establishments that sell goods on a retail or wholesale basis. They are responsible for the budgets, staffing and strategic and operational direction of shops, or of organisational units within shops that sell particular types of product.

Tasks include:

- determining product mix, stock levels and service standards
- formulating and implementing purchasing and marketing policies and setting prices
- promoting and advertising the establishment's goods and services
- maintaining records of stock levels and financial transactions
- undertaking budgeting for the establishment

This unit group includes:

- Departmental store manager
- Retail manager
- Supermarket manager
- Wholesale trade manager
- Working proprietor (retail trade)
- Working proprietor (wholesale trade)

This unit group excludes:

- Sales manager (1221)
- Sales supervisor (5220)
- Shop sales assistant (5220)

Notes Chief executives of groups of establishments such as supermarket or departmental store chains are classified, however, in Unit Group 1120 „Managing directors, chief executives and general managers“.

1431 **Sports Centre Managers**

Sports centre managers plan, organise and control the operations of establishments that provide sporting services.

Tasks include:

- planning and organising the range and mix of sports and fitness programmes to be offered by the centre
- ensuring that facilities are kept clean and in good condition
- advising on the facilities available and promoting publicity in relation to events, shows and activities
- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources for sports activities

This unit group includes:

- Sports centre manager

1432 **Recreation Centre Managers**

Recreation centre managers plan, organise and control the operations of establishments that provide recreational and amenity services.

Tasks include:

- planning and organising the range and mix of entertainment programmes to be offered by the recreation centre
- ensuring that facilities are kept clean and in good condition
- advising on the facilities available and promoting publicity in relation to events, shows and activities

This unit group includes:

- Amusement/ theme park manager
- Casino manager
- Cinema manager
- Discotheque manager
- Karaoke lounge managers
- Leisure centre manager

1433 Arts and Cultural Centre Managers

Arts and cultural centre managers plan, organise and control the operations of establishments that provide artistic and theatrical services.

Tasks include:

- planning and organising the range and mix of entertainment, attractions and cultural activities programmes to be offered by the centre
- ensuring that facilities are kept clean and in good condition
- keeping abreast of new trends and developments in the creative arts and arranging theatrical productions and performances by bands and orchestras
- advising on the facilities available and promoting publicity in relation to events, shows and activities

This unit group includes:

- Theatre manager
- Arts administrator
- Art gallery manager
- Museum manager

1439 Other Services Managers Not Elsewhere Classified

This unit group covers jobs responsible for planning, directing and coordinating the provision of services not classified in Minor Group 143 „Other services managers“. For instance, working proprietors (sports, recreation, arts and other services) are classified here.

Tasks include:

- planning and organising the range and mix of services or activities provided
- ensuring that facilities are kept clean and in good condition
- establishing and managing budgets
- controlling expenditure and ensuring the efficient use of resources

This unit group includes:

- Working proprietor (sports, recreation, arts and other services)

2111 Physicists and Astronomers

Physicists and astronomers conduct research, improve or develop concepts, theories and operational methods concerning matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena. They apply scientific knowledge relating to physics and astronomy in industrial, medical, military or other fields.

Tasks include:

- Conducting research and improving or developing concepts, theories, instrumentation, software and operational methods related to physics and astronomy
- conducting experiments, tests and analyses on the structure and properties of matter in fields such as mechanics, thermodynamics, electronics, communications, power generation and distribution, aerodynamics, optics and lasers, remote sensing, medicine, sonics, magnetism, and nuclear physics
- evaluating results of investigations and experiments and expressing conclusions, mainly using mathematical techniques and models
- applying principles, techniques and processes to develop or improve industrial, medical, military and other practical applications of the principles and techniques of physics or astronomy
- ensuring, accurate measurement and characterisation of doses of radiation delivered to patients in medical applications of nuclear technology
- testing, commissioning and evaluating equipment used in applications such as imaging, medical treatment and dosimetry
- advising and consulting with medical practitioners and other healthcare professionals in optimising the balance between the beneficial and deleterious effects of radiation
- observing, analysing and interpreting celestial phenomena and developing methods, numerical models and techniques to extend knowledge of fields such as navigation, satellite communication, space exploration, celestial bodies and cosmic radiation
- maintaining and developing standards and protocols for measurement of physical phenomena and for the use of nuclear technology in industrial and medical applications
- preparing scientific papers and reports

This unit group includes:

- Astronomer
- Heat physicist
- Nuclear physicist
- Physicist

This unit group excludes:

- Radiation oncologist (2214)
- Radiologist (2214)
- Radiographer (3211)

2112 Meteorologists

Meteorologists prepare short-term or long-term weather forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public. They conduct research related to the composition, structure and dynamics of the atmosphere.

Tasks include:

- investigating direction and speed of air movements, pressures, temperatures, humidity, physical and chemical transformation of pollutants and other phenomena such as cloud formation and precipitation, electrical disturbances or solar radiation
- studying data collected from meteorological stations, radar and satellite imagery and computer model output to plot and forecast weather conditions
- preparing and reporting short-term or long-term weather maps, forecasts and warnings relating to atmospheric phenomena such as cyclones, storms and other hazards to life and property and disseminating information about atmospheric conditions through a variety of media including radio, television, print and the Internet
- conducting experiments in fog dispersal, cloud seeding, rain enhancement and other types of weather modification programmes
- developing and testing mathematical computer models of weather and climate for experimental or operational use
- participating in studies of the effect of weather on the environment
- analysing the impact of industrial projects and human activity on the climate and quality of the air and work with the social science, engineering and economic communities to develop appropriate mitigation strategies
- engaging in the design and development of new equipment and procedures for meteorological data collection, remote sensing, or for related applications
- conducting research on and improving or developing concepts, theories and operational methods related to the composition, structure and dynamics of the atmosphere and preparing scientific papers and reports on the outcome of this research
- preparing scientific papers and reports

This unit group includes:

- Climatologist
- Hydrometeorologist
- Meteorologist
- Weather forecaster

2113 Chemists

Chemists conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, to develop new knowledge or products and for quality and process control.

Tasks include:

- conducting research and improving or developing concepts, instruments, theories and operational methods related to chemistry

- conducting experiments, tests and analyses to investigate chemical composition and energy and chemical changes in various natural or synthetic substances, materials and products
- developing procedures for environmental control, quality control and various other procedures for manufacturers or users
- conducting programmes of sample and data collection and analysis to identify and quantify environmental toxicants
- participating in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals
- using micro-organisms to convert substances into new compounds
- determining ways to strengthen or combine materials or develop new materials
- reproducing and synthesising naturally occurring substances and creating new artificial substances
- preparing scientific papers and reports

This unit group includes:

- Chemist
- Food chemist
- Petroleum chemist

2114 **Geologists, Geophysicists and Other Physical Science Professionals**

Geologists, geophysicists and other physical science professionals conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conservation, civil engineering, telecommunications and navigation, and assessment and mitigation of the effects of development and waste disposal projects on the environment.

Tasks include:

- conducting research and improving or developing concepts, theories and operational methods related to geology and geophysics
- studying composition and structure of the Earth's crust, examining rocks, minerals, fossils and other materials, to determine processes affecting the development of the Earth, trace evolution of past life, establish nature and chronology of geological formations and assess their commercial applications
- interpreting research data and preparing geological reports, maps, charts and diagrams, reports and papers
- using various remote sensing programmes to investigate and measure seismic, gravitational, electrical, thermal, and magnetic forces affecting the Earth
- estimating weight, size and mass of the Earth and composition and structure of its interior, and studying the nature, activity and predictability of volcanoes, glaciers and earthquakes
- charting the Earth's magnetic field and applying this and other collected data for broadcasting, navigation and other purposes
- studying and measuring physical properties of seas and the atmosphere and their inter-relationship, such as the exchange of thermal energy
- locating and determining the nature and extent of oil, gas and mineral deposits using seismological, gravimetric, magnetic, electrical or radiometric methods
- identifying deposits of construction materials and determining their characteristics

- and suitability for use as concrete aggregates, road fill or for other applications
- researching the movement, distribution and physical properties of ground and surface waters
 - advising in areas such as waste management, route and site selection and the restoration of contaminated sites

This unit group includes:

- Geological oceanographer
- Geologist
- Geophysical oceanographer
- Geophysicist
- Hydrologist

2121 **Mathematicians, Operations Research Analysts and Actuaries**

Mathematicians, operations research analysts and actuaries conduct research and improve or develop mathematical and actuarial concepts, theories and operational methods and techniques and advise on or engage in their practical application in such fields as engineering, business and social and other sciences.

Tasks include:

- studying, improving and developing mathematical and actuarial theories and techniques
- advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social or life sciences
- conducting logical analyses of management problems, especially in terms of input-output effectiveness, and formulating mathematical models of each problem usually for programming and solution by computer
- designing and putting into operation pension schemes and life, health, social and other types of insurance systems
- preparing scientific papers and reports
- supervising the work of mathematical, operations research analyst and actuarial assistants

This unit group includes:

- Actuary
- Operations research analyst
- Mathematician

This unit group excludes:

- Statistical officer (3314)
- Statistical clerk (4314)
- Systems analyst (2511)

2122 Statisticians

Statisticians conduct research and improve or develop statistical concepts, theories and operational methods and techniques and advise on or engage in their practical application in such fields as engineering, business and social and other sciences.

Tasks include:

- studying, improving and developing statistical theories and techniques
- applying statistics, probability and risk theory to assess potential financial impacts of future events
- planning and organising surveys and other statistical collections, and designing questionnaires
- evaluating, processing, analysing, and interpreting statistical data and preparing them for publication
- advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings, especially in such fields as business or medicine as well as in other areas of natural, social or life sciences
- preparing scientific papers and reports
- supervising the work of statistical assistants and statistical clerks

This unit group includes:

- Statistician
- Statistician (applied statistics)

This unit group excludes:

- Statistical officer (3314)
- Statistical clerk (4314)

2131 Biologists, Botanists, Zoologists and Related Professionals

Biologists, botanists, zoologists and related professionals study living organisms and their interactions with each other and with the environment, and apply this knowledge to solve human health and environmental problems. They work in diverse fields such as biology, botany, zoology, plant taxonomy and marine biology.

Tasks include:

- undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to test hypotheses
- designing and conducting experiments and tests
- gathering human, animal, insect and plant specimens and data, and studying their origin, development, chemical and physical form, structure, composition, and life and reproductive processes
- examining living organisms using a variety of specialised equipment, instruments, technologies and techniques such as electron microscopes, telemetry, global positioning systems, biotechnology, satellite imaging, genetic engineering, digital imaging analysis, polymerase chain reaction and computer modelling
- identifying, classifying, recording and monitoring living organisms and maintaining databases
- writing scientific papers and reports detailing research and any new findings which are then made available to the scientific community in scientific journals or at conferences for scrutiny and further debate

This unit group includes:

- Biologist
- Botanist
- Marine biologist
- Microbiologist
- Zoologist

This unit group excludes:

- Ecologist (2133)
- Bacteriologist (2134)
- Geneticist (2134)

2132 **Farming, Forestry and Fisheries Advisers**

Farming, forestry and fisheries advisers study and provide assistance and advice on farms, forestry and fisheries management, including cultivation, fertilisation, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They develop techniques for increasing productivity, and study and develop plans and policies for land and fisheries management.

Tasks include:

- collecting and analysing data and samples related to produce, feed soil, water quality and other production options
- advising on techniques for improving the production of crops, livestock and fish, and alternative production options
- advising on livestock and crop disease, control of pests and weeds, soil improvement, animal husbandry and feeding programmes
- studying the environmental factors affecting commercial crop production, pasture growth, animal breeding, fish stocks and the growth and health of forest trees
- studying the effects of cultivation techniques, soils, insects, diseases and fisheries practices on animal, crop, forestry and fisheries yield
- studying fish migration, growth, feeding and spawning and devising methods of collecting fertilising, incubating and hatching fish eggs
- researching into characteristics, use capability and productivity of soils and applying findings to development of improved agricultural, horticultural and forestry practices
- developing procedures and techniques for solving agricultural problems and improving the efficiency of production
- managing forest and fisheries resources to maximise their long-term commercial, recreational and environmental benefits
- studying the propagation and culture of forest trees, methods for improving the growth of stocks, and the effects of thinning on forest yields
- investigating, planning and implementing management procedures to cope with the effects of fires, floods, droughts, soil erosion, pests and diseases
- preparing scientific reports and conducting advisory information sessions and lectures for farming, forestry and fishing communities and other groups

This unit group includes:

- Agronomist
- Aquaculturist
- Forestry scientist
- Horticulturist
- Forestry adviser
- Silviculturist
- Soil scientist

2133 **Environmental Protection and Related Professionals**

Environmental protection professionals study and assess the effects on the environment of human activity such as air, water and noise pollution, soil contamination, climate change, toxic waste and depletion and degradation of natural resources. They develop plans and solutions to protect, conserve, restore, minimise and prevent further damage to the environment.

Tasks include:

- conducting research, performing tests, collecting samples, performing field and laboratory analysis to identify sources of environmental problems and recommending ways to prevent, control and remediate the impact of environmental problems
- assessing the likely impact that potential or proposed activities, projects and developments may have on the environment, and recommending whether such developments should proceed
- developing and coordinating the implementation of environmental management systems to enable organisations to identify, monitor and control the impact of their activities, products and services on the environment
- conducting audits to evaluate environmental impact of existing activities, processes, wastes, noises and substances
- assessing an organisation's compliance with government and internal environmental regulations and guidelines, identifying violations and determining appropriate remedial action
- providing technical advice and support services to organisations on how best to deal with environmental problems in order to reduce environmental damage and minimise financial loss
- developing conservation plans

This unit group includes:

- Air pollution analyst
- Conservation officer
- Conservation scientist
- Ecologist
- Environmental officer (environmental protection)

This unit group excludes:

- Environmental engineer (2143)
- Environmental officer (environmental public health) (2263)

2134 Pharmacologists and Related Professionals

Pharmacologists and related professionals study the structure, composition, and life processes of humans, animals and micro-organisms and apply this knowledge to prevent disease in humans and animals, promote health and physical fitness and develop animals for economic exploitation. They work in diverse fields such as anatomy, genetics, pharmacology, physiology, bacteriology and virology.

Tasks include:

- undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to solve problems in areas such as the environment, agriculture and health; and to develop new products, processes and techniques for pharmaceutical, agricultural and environmental use
- designing and conducting experiments and tests
- gathering human, animal, insect and plant specimens and data, and studying their origin, development, chemical and physical form, structure, composition, and life and reproductive processes
- examining living organisms using a variety of specialised equipment, instruments, technologies and techniques such as electron microscopes, telemetry, global positioning systems, biotechnology, satellite imaging, genetic engineering, digital imaging analysis, polymerase chain reaction and computer modelling
- writing scientific papers and reports detailing research and any new findings which are then made available to the scientific community in scientific journals or at conferences for scrutiny and further debate
- designing and carrying out environmental impact assessments to identify changes caused by natural or human factors
- providing advice to governments, organisations and businesses in areas such as conservation, management of natural resources, the effects of climate change and pollution

This unit group includes:

- Anatomist
- Biochemist
- Biophysicist
- Physiologist
- Pharmacologist

This unit group excludes:

- Biologist (2131)
- Zoologist (2131)

2141 Industrial and Production Engineers

Industrial and production engineers conduct research and design, organise and oversee the construction, operation and maintenance of process plant and installations. They establish programmes for the coordination of manufacturing activities; and assess cost effectiveness and safety.

Tasks include:

- studying functional statements, organisational charts and project information to determine functions and responsibilities of workers and work units and to identify areas of duplication
- establishing work measurement programmes and analysing work samples to develop standards for labour utilisation
- analysing workforce utilisation, facility layout, operational data and production schedules and costs to determine optimum worker and equipment efficiencies
- developing specifications for manufacture, and determining materials, equipment, piping, material flows, capacities and layout of plant and systems
- organising and managing project labour and the delivery of materials, plant and equipment
- establishing standards and policies for installation, modification, quality control, testing, inspection and maintenance according to engineering principles and safety regulations
- inspecting plant to improve and maintain performance
- directing the maintenance of plant buildings and equipment, and coordinating the requirements for new designs, surveys and maintenance schedules
- advising management on new production methods, techniques and equipment
- liaising with materials buying, storing and controlling departments to ensure a steady flow of supplies

This unit group includes:

- Methods engineer
- Motion study engineer
- Production engineer
- Robot engineer
- Quality control engineer

This unit group excludes:

- Manufacturing production manager (1321)

2142 **Civil Engineers**

Civil engineers conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.

Tasks include:

- conducting research and developing new or improved theories and methods related to civil engineering
- advising on and designing structures such as bridges, dams, docks, roads, airports, railways, canals, pipelines, waste-disposal and flood-control systems, and industrial and other large buildings
- determining and specifying construction methods, materials and quality standards, and directing construction work
- establishing control systems to ensure efficient functioning of structures as well as safety and environmental protection
- organising and directing maintenance and repair of existing civil engineering structures

- analysing the behaviour of soil and rock when placed under pressure by proposed structures and designing structural foundations
- analysing the stability of structures and testing the behaviour and durability of materials used in their construction

This unit group includes:

- Civil engineer
- Civil/aerodrome construction engineer
- Civil/bridge construction engineer
- Civil/building construction engineer
- Civil/highway and street construction engineer
- Hydraulics engineer
- Structural engineer

This unit group excludes:

- Civil engineering project manager (1323)
- Town planners (2164)

2143 **Environmental Engineers**

Environmental engineers conduct research, advise on, design and direct implementation of solutions to prevent, control or remedy negative impacts of human activity on the environment utilising a variety of engineering disciplines. They conduct environmental assessments of construction and civil engineering projects and apply engineering principles to pollution control, recycling and waste disposal.

Tasks include:

- conducting research, assessing and reporting on the environmental impact of existing and proposed construction, civil engineering and other activities
- inspecting industrial and municipal facilities and programmes to evaluate operational effectiveness and ensure compliance with environmental regulations
- designing and overseeing the development of systems, processes and equipment for control, management, or remediation of water, air, or soil quality
- obtaining, updating, and maintaining plans, permits, and standard operating procedures
- providing engineering and technical support for environmental remediation and litigation projects, including remediation system design and determination of regulatory applicability
- monitoring progress of environmental improvement programmes
- advising corporations and government agencies of procedures to follow in cleaning up contaminated sites to protect people and the environment
- collaborating with environmental scientists, planners, hazardous waste technicians, engineers from other disciplines, and specialists in law and business to address environmental problems

This unit group includes:

- Environmental engineer
- Sewerage engineer
- Sanitary engineer

2144 Mechanical Engineers

Mechanical engineers conduct research; advise on, design, and direct production of machines, ships, machinery and industrial plant, equipment and systems, advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.

Tasks include:

- advising on and designing machinery and tools for manufacturing, mining, construction, agricultural, and other industrial purposes
- advising on and designing steam, internal combustion and other non-electric motors and engines used for propulsion of railway locomotives, road vehicles or aircraft, or for driving industrial or other machinery
- advising on and designing hulls, superstructures and propulsion systems of ships; mechanical plant and equipment for the release, control and utilisation of energy; heating, ventilation and refrigeration systems, steering gear, pumps, and other mechanical equipment
- advising on and designing airframes, undercarriages and other equipment for aircraft as well as suspension systems, brakes, vehicle bodies and other components of road vehicles
- advising on and designing non-electrical parts of apparatus or products such as word processors, computers, precision instruments, cameras and projectors
- establishing control standards and procedures to ensure efficient functioning and safety of machines, machinery, tools, motors, engines, industrial plant, equipment, or systems
- ensuring that equipment, operation and maintenance comply with design specifications and safety standards

This unit group includes:

- Aeronautical engineer
- Naval architect
- Marine engineer (shore-based)
- Mechanical engineer

This unit group excludes:

- Marine engineer officer (3151)

2145 Chemical Engineers

Chemical engineers conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.

Tasks include:

- conducting research and advising on, and developing commercial-scale chemical processes to refine crude oil and other liquids or gases, and to produce substances and items such as petroleum derivatives, explosives, food and drink products, medicines or synthetic materials
- specifying chemical production methods, materials and quality standards and ensuring that they conform to specifications

- establishing control standards and procedures to ensure safety and efficiency of chemical production operations and safety of workers operating equipment or working in close proximity to on-going chemical reactions
- designing chemical plant equipment and devising processes for manufacturing chemicals and products
- performing tests throughout stages of production to determine degree of control over variables, including temperature, density, specific gravity, and pressure
- developing safety procedures to be employed
- preparing estimates of production costs and production progress reports for management
- performing laboratory studies of steps in manufacture of new products and testing proposed process in small scale operation such as a pilot plant

This unit group includes:

- Chemical engineer
- Petrochemicals engineer
- Petroleum refining engineer

2146 **Mining Engineers, Metallurgists and Related Professionals**

Mining engineers, metallurgists and related professionals conduct research on and, design, develop and maintain commercial-scale methods of extracting metals from their ores, or minerals, water, oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on mining or metallurgical aspects of particular materials, products or processes.

Tasks include:

- determining the location and planning the extraction of coal, metallic ores, non-metallic minerals, and building materials, such as stone and gravel
- determining most suitable methods of efficient mining and extraction, types of machinery to be used, planning layout and directing construction of shafts and tunnels
- determining drilling site and devising methods of controlling the flow of water, oil or gas from wells
- planning and directing storage, initial treatment and transportation of water, oil or gas
- conducting research, developing methods of extracting metals from their ores and advising on their application
- investigating properties of metals and alloys, developing new alloys and advising on and supervising technical aspects of metal and alloy manufacture and processing
- maintaining technical liaison and consultancy with other relevant specialists such as geologists and geophysicists
- examining deposits or mines to evaluate profitability

This unit group includes:

- Metallurgist
- Mining/coal engineer
- Mining/metal engineer
- Mining/petroleum and natural gas engineer

This unit group excludes:

- Geologists (2114)
- Geophysicists (2114)
- Petroleum refinery engineer (2145)

2149 **Engineering Professionals Not Elsewhere Classified**

This unit group covers architects, engineers and related professionals not classified elsewhere in Minor Group 214 „Engineering Professionals (excluding electrotechnology)“ and 215 „Electrotechnology engineers“. This group includes, for instance, those who conduct research, advise on or develop engineering procedures and solutions concerning workplace safety, biomedical engineering; optics; materials; nuclear power generation and explosives.

Tasks include:

- applying knowledge of engineering to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, and instrumentation
- designing devices used in various medical procedures, imaging systems such as magnetic resonance imaging (MRI), and devices for automating insulin injections or controlling body functions
- designing components of optical instruments such as lenses, microscopes, telescopes, lasers, optical disc systems and other equipment that utilise the properties of light
- designing, testing, and coordinating the development of explosive ordnance material to meet military procurement specifications
- designing and overseeing construction and operation of nuclear reactors and power plants and nuclear fuels reprocessing and reclamation systems
- designing and developing nuclear equipment such as reactor cores, radiation shielding, and associated instrumentation and control mechanisms
- assessing damage and providing calculations for marine salvage operations
- studying and advising on engineering aspects of particular manufacturing processes, such as those related to glass, ceramics, textiles, leather products, wood, and printing

This unit group includes:

- Biomedical engineer
- Materials engineer
- Industrial safety engineer
- Quantity surveyor
- Food and drink technologist

This unit group excludes:

- Industrial and production engineer (2141)
- Environmental engineer (2143)
- Surveyor (2165)

2151 Electrical Engineers

Electrical engineers conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.

Tasks include:

- advising on and designing power stations and systems which generate , transmit and distribute electrical power
- supervising, controlling and monitoring the operation of electrical generation, transmission and distribution systems
- advising on and designing systems for electrical motors, electrical traction and other equipment, or electrical domestic appliances
- specifying electrical installation and application in industrial and other buildings and objects
- establishing control standards and procedures to monitor performance and safety of electrical generating and distribution systems, motors and equipment
- determining manufacturing methods for electrical systems, as well as maintenance and repair of existing electrical systems, motors and equipment

This unit group includes:

- Power generation and distribution engineer
- Electrical engineer
- Lift engineer

This unit group excludes:

- Electronics engineer (2152)
- Telecommunications engineer (2153)

2152 Electronics Engineers

Electronics engineers conduct research on, design, and direct the construction functioning, maintenance and repair of electronic systems and study and advise on technological aspects of electronic engineering materials, products or processes.

Tasks include:

- advising on and designing electronic devices or components, circuits, semi-conductors, and embedded systems
- specifying production or installation methods, materials and quality standards and directing production or installation work of electronic products and embedded systems
- establishing control standards and procedures to ensure efficient functioning and safety of electronic systems, motors and equipment
- organising and directing maintenance and repair of existing electronic systems, and equipment
- designing electronic circuits and components for use in fields such as aerospace guidance and propulsion control, acoustics, or instruments and controls
- researching and advising on radar, telemetry and remote control systems, microwaves and other electronic equipment

- designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software
- developing apparatus and procedures to test electronic components, circuits and systems

This unit group includes:

- Computer hardware engineer
- Electronics engineer
- Instrumentation engineer
- Embedded systems engineer

This unit group excludes:

- Telecommunications engineer (2153)
- Software engineer (2512)

2153 **Telecommunications Engineers**

Telecommunications engineers conduct research and advise on, design, and direct the construction of the functioning, maintenance and repairs of telecommunication systems and equipment. They study and advise on technological aspects of telecommunication engineering materials, products or processes.

Tasks include:

- advising on and designing telecommunications devices or components, systems, equipment and distribution centres
- specifying production or installation methods, materials, quality and safety standards and directing production or installation work of telecommunications products and systems
- organising and directing maintenance and repair of existing telecommunication systems, motors and equipment
- researching and advising on telecommunications equipment
- planning and designing communications networks based on wired, fibre optical and wireless communication media
- designing telecommunications networks and radio and television distribution systems, including both cable and over the air

This unit group includes:

- Broadcast engineer
- Telecommunications engineer
- Telephone engineer

This unit group excludes:

- Electronics engineer (2152)

2161 **Building Architects**

Building architects design commercial, industrial, institutional, residential and recreational buildings and plan and monitor their construction, maintenance and rehabilitation.

Tasks include:

- developing new or improved architectural theories and methods

- inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings and alterations to existing buildings
- providing information regarding designs, materials and estimated building times
- preparing project documentation, including sketches and scale drawings, and integrating structural, mechanical and aesthetic elements in final designs
- writing specifications and contract documents for use by builders and calling tenders on behalf of clients
- making necessary contacts to ensure feasibility of projects regarding style, cost, timing, and compliance with regulations
- identifying and finding best solutions for problems regarding function and quality of interior environments of buildings and making necessary designs, drawings and plans
- monitoring construction or rehabilitation work to ensure compliance with specifications and quality standards
- maintaining technical liaison and consultancy with other relevant specialists

This unit group includes:

- Building architect

This unit group excludes:

- Landscape architect (2162)
- Interior designer (3432)
- Town planner (2164)

2162 **Landscape Architects**

Landscape architects plan and design landscapes and open spaces for projects such as, parks, schools, institutions, roads, external areas for commercial, industrial and residential sites. They also plan and monitor their construction, maintenance and rehabilitation.

Tasks include:

- developing new or improved theories and methods in landscape architecture
- inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings, parks, roads and other open spaces
- compiling and analysing site and community data about geographical and ecological features, landforms, soils, vegetation, site hydrology, visual characteristics and human-made structures, to formulate land use and development recommendations, and for preparing environmental impact statements
- preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures, vegetation and access
- writing specifications and contract documents for use by builders and civil engineering contractors and calling tenders on behalf of clients
- making necessary contacts to ensure feasibility of projects regarding style, cost, timing and compliance with regulations

- identifying and finding best solutions for problems regarding function and quality of exterior environments and making necessary designs, drawings and plans
- monitoring construction or rehabilitation work to ensure compliance with specifications and quality standards
- maintaining technical liaison and consultancy with other relevant specialists

This unit group includes:

- Landscape architect

This unit group excludes:

- Building architect (2161)
- Town planner (2164)
- Urban planner (2164)

2164 **Town and Related Planners**

Town and related planners develop and implement plans and policies for the controlled use of urban and rural land. They conduct research and provide advice on economic, environmental and social factors affecting land use.

Tasks include:

- planning layout and coordinating development of urban areas
- compiling and analysing data on economic, legal, political, cultural, demographic, sociological, physical and environmental factors affecting land use
- conferring with government authorities, communities and specialists in fields such as architecture, planning, social science the environment and the law
- devising and recommending use and development of land, and presenting narrative and graphic plans, programmes and designs to groups and individuals
- advising governments, companies and communities on urban and regional planning issues and proposals
- reviewing and evaluating environmental impact reports
- planning layout and coordinating development of urban areas
- planning and the development of land areas for parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites
- planning and advising on routing and control of road traffic and public transportation systems for efficiency and safety

This unit group includes:

- Land planner
- Traffic planner
- Urban planner

This unit group excludes:

- Building architect (2161)
- Landscape architect (2162)

2165 Surveyors and Cartographers

Surveyors and cartographers determine the exact position of, or prepare and revise digital, graphic and pictorial maps, charts other visual representation of, natural and constructed features and boundaries of land, seas, underground areas and celestial bodies, applying scientific and mathematical principles.

Tasks include:

- surveying, measuring and describing land surfaces, mines, underground surfaces, sea, river and lake beds
- noting exact position of various features and recording survey data in digital form
- making charts and maps to be used in determining navigable waters and channels and in planning construction of marine structures
- planning and conducting aerial photographic surveys
- designing, compiling and revising maps and charts using aerial and other photographs, satellite imagery, survey documents and data, existing maps and records, reports and statistics
- undertaking research and development of surveying and photogrammetric measurement systems, cadastral systems and land information systems
- studying and advising on technical, aesthetic and economic aspects of map production
- maintaining technical liaison and consultancy with other relevant specialists

This unit group includes:

- Aerial surveyor
- Cadastral surveyor
- Cartographer
- Hydrographic surveyor
- Land surveyor
- Mine surveyor
- Photogrammetrist

This unit group excludes:

- Marine surveyor (3115)
- Quantity surveyor (2149)

2211 Generalist Medical Practitioners

Generalist medical practitioners diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans through application of the principles and procedures of modern medicine. They do not limit their practice to certain disease categories or methods of treatment, and may assume responsibility for the provision of continuing and comprehensive medical care to, and the maintenance of general health of, individuals, families and communities. Medical graduates undergoing housemanship are also classified here

Tasks include:

- conducting physical examinations of patients and interviewing them and their families to determine their health status
- ordering laboratory tests, X-rays and other diagnostic procedures and analysing findings to determine the nature of disorders or illnesses

- providing continuing medical care for patients including prescribing, administering, counselling on and monitoring curative treatments and preventive measures
- performing minor surgery and other clinical procedures
- advising individuals, families and communities on health, nutrition and lifestyle which aid prevention or treatment of disease and disorders
- providing referrals to patients and families for specialised care in hospitals, rehabilitation centres or other types of healthcare centres
- identifying, managing and providing referrals for complications before, during and after childbirth
- recording patients' medical information and history and exchanging information with specialist practitioners and other health workers as required for continuing medical care
- reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements
- planning and participating in programmes designed to prevent the occurrence and spread of common diseases

This unit group includes:

- General practitioner
- Medical doctor (general)
- Physician (general)

This unit group excludes:

- Specialist medical practitioner (2212, 2213, 2214)
- Surgeon (2213)
- Psychiatrist (2212)

2212 **Specialist Medical Practitioners (Medical)**

Specialist medical practitioners (medical) diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans, using specialised testing, diagnostic, medical, physical and psychiatric techniques, through application of the principles and procedures of modern medicine. They specialise in certain disease categories, types of patient or methods of treatment and may conduct medical education and research in their chosen areas of specialisation.

Tasks include:

- conducting physical examinations of patients and interviewing them and their families to determine their health status
- considering medical information provided by a referring doctor or other healthcare provider
- ordering specialised diagnostic tests to determine the nature of disorders or illnesses
- prescribing, administering and monitoring patients' responses to treatments, medications, anaesthetics, psychotherapies, physical rehabilitation programmes and other preventive and curative measures
- recording patients' medical information and exchanging information with other health professionals to ensure the provision of comprehensive care
- reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements

- providing information to patients and families about preventive measures, treatment and care for specific ailments
- conducting research into specific human disorders and illnesses and preventive or curative methods and disseminating the findings such as through scientific reports
- planning and participating in programmes designed to prevent the occurrence and spread of specific diseases

This unit group includes:

- Cardiologist
- Dermatologist
- Paediatrician
- Psychiatrist
- Respiratory physician
- Internal medicine physician

This unit group excludes:

- Anaesthesiologist (2214)
- Emergency physician (2214)
- Gynaecologist (2214)
- Medical scientist (2134)
- Obstetrician (2214)
- Ophthalmologist (2214)
- Pathologist (2213)
- Radiologist (2214)
- General practitioner (2211)
- Dental practitioner (2261)
- Dental surgeon (2261)
- Clinical psychologist (2634)
- Surgeon (2213)

2213 **Specialist Medical Practitioners (Surgical)**

Specialist medical practitioners (surgical) diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans, using surgical techniques, through application of the principles and procedures of modern medicine. They specialise in certain disease categories, types of patient or methods of treatment and may conduct medical education and research in their chosen areas of specialisation.

Tasks include:

- considering medical information provided by a referring doctor or other healthcare provider
- ordering specialised diagnostic tests to determine the nature of disorders or illnesses
- prescribing, administering and monitoring patients' responses to surgical treatments
- performing surgery of a general or specialised nature
- managing complications before, during and after surgery
- recording patients' medical information and exchanging information with other health professionals to ensure the provision of comprehensive care
- reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements

- providing information to patients and families about preventive measures, treatment and care for specific ailments
- conducting research into specific human disorders and illnesses and preventive or curative methods and disseminating the findings such as through scientific reports
- planning and participating in programmes designed to prevent the occurrence and spread of specific diseases

This unit group includes:

- General surgeon
- Cardiothoracic surgeon
- Hand surgeon
- Orthopaedic surgeon
- Plastic surgeon
- Urologist

This unit group excludes:

- General practitioner (2211)
- Dental surgeon (2261)
- Ear, nose, throat (ENT) surgeon (2214)

2214 **Specialist Medical Practitioners (Other Specialisations)**

Specialist medical practitioners (other specialisations) diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans, using specialised testing, diagnostic, medical, surgical, physical and psychiatric techniques, through application of the principles and procedures of modern medicine. They specialise in certain disease categories, types of patient or methods of treatment and may conduct medical education and research in their chosen areas of specialisation.

Tasks include:

- conducting physical examinations of patients and interviewing them and their families to determine their health status
- considering medical information provided by a referring doctor or other healthcare provider
- ordering specialised diagnostic tests to determine the nature of disorders or illnesses
- prescribing, administering and monitoring patients' responses to treatments, medications, anaesthetics, psychotherapies, physical rehabilitation programmes and other preventive and curative measures
- performing surgery of a specialised nature
- managing complications before, during and after childbirth
- recording patients' medical information and exchanging information with other health professionals to ensure the provision of comprehensive care
- reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements
- providing information to patients and families about preventive measures, treatment and care for specific ailments
- performing autopsies to determine cause of death
- conducting research into specific human disorders and illnesses and preventive or curative methods and disseminating the findings such as through scientific reports
- planning and participating in programmes designed to prevent the occurrence and spread of specific diseases

This unit group includes:

- Anaesthesiologist
- Emergency physician
- Gynaecologist
- Obstetrician
- Ophthalmologist
- Pathologist
- Ear, nose, throat (ENT) surgeon
- Radiation oncologist

This unit group excludes:

- Cardiologist (2212)
- Paediatrician (2212)
- General practitioner (2211)
- Dental surgeon (2261)
- Clinical psychologist (2634)
- Internal medicine physician (2212)
- Psychiatrist (2212)

2230 **Traditional and Complementary Medicine Professionals**

Traditional and complementary medicine professionals maintain health and prevent, diagnose and treat illness, disease, injury, and other physical and mental impairments in humans by applying knowledge, skills and practices acquired through extensive study of theories, beliefs and experiences, originating in specific cultures.

Tasks include:

- conducting physical examinations of patients and interviewing them and their families to determine their health status
- developing and implementing treatment plans using applications such as acupuncture, homoeopathic and herbal medicine
- evaluating and documenting patients' progress through treatment plans
- providing health, nutrition and lifestyle advice
- prescribing natural medicines, such as herbal, mineral and animal extracts, to stimulate the body's capacity for self-healing
- exchanging information about patients with other healthcare workers as needed to ensure continuing and comprehensive healthcare
- conducting research into traditional and complementary medicines and treatments and disseminating findings such as through scientific papers and reports

This unit group includes:

- Acupuncturist
- Chinese physician

This unit group excludes:

- Chiropractor (3259)
- Osteopath (3259)

Notes Occupations in traditional and complementary medicine whose practice requires an extensive understanding of the benefits and applications of traditional and complementary therapies, developed as the result of extended formal study of these techniques as well as human anatomy and elements of modern medicine, are classified in Unit Group 2230 „Traditional and complementary medicine professionals“. Those whose practice requires a less extensive understanding based

on relatively short periods of formal or informal education and training, or on knowledge passed on informally from generation to generation are included in Unit Group 3230 „Traditional and complementary medicine associate professionals“. Practitioners working in the singular application of approaches to herbal medicines, spiritual therapies or manual therapeutic techniques are excluded from Unit Group 2230.

2250 **Veterinarians**

Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialise in the treatment of a particular animal group or in a particular specialty area, or provide professional services to commercial firms producing biological and pharmaceutical products.

Tasks include:

- determining the presence and nature of abnormal conditions by physical examination, laboratory testing and through diagnostic imaging techniques including radiography and ultrasound
- treating animals medically and surgically, and administering and prescribing drugs, analgesics, and general and local anaesthetics
- performing surgery, dressing wounds and setting broken bones
- rendering obstetric and dental services to animals
- participating in programmes designed to prevent the occurrence and spread of animal diseases
- inoculating animals against, and testing for, infectious diseases and notifying authorities of outbreaks of infectious animal diseases
- performing autopsies to determine cause of death
- advising clients on health, nutrition and feeding, hygiene, breeding and care of animals
- providing euthanasia services for animals

This unit group includes:

- Animal pathologist
- Public health veterinarian
- Veterinarian
- Veterinary surgeon

2261 **Dentists**

Dentists diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry. They use a broad range of specialised diagnostic, surgical and other techniques to promote and restore oral health.

Tasks include:

- diagnosing diseases, injuries, irregularities and malformations of teeth and associated structures in the mouth and jaw using a range of methods such as radiographs, salivary tests and medical histories
- providing preventative oral healthcare such as periodontal treatments, fluoride applications and oral health promotion

- providing restorative oral care such as implants, complex crown and bridge restorations, and orthodontics, and repairing damaged and decayed teeth
- providing surgical treatments such as extraction of teeth, biopsy of tissue, and performing orthodontic treatment
- measuring and taking impressions of patients' jaws and teeth in order to determine the shape and size of dental prostheses
- designing, making, and fitting prosthodontic appliances such as space maintainers, bridges, and dentures, or writing fabrication instructions or prescriptions for dental prosthetic technicians
- restoring oral function with removable and fixed oral prostheses
- assisting in diagnosing general diseases having oral manifestations such as diabetes
- educating patients to take care of their mouth and teeth
- supervising dental hygienists, dental assistants and other staff

This unit group includes:

- Oral surgeon
- Dentist
- Orthodontist

2262 **Pharmacists**

Pharmacists store, preserve, compound, and dispense medicinal products and counsel on the proper use and adverse effects of drugs and medicines following prescriptions issued by medical doctors and other health professionals. They contribute to researching, testing preparing, prescribing and monitoring medicinal therapies for optimising human health.

Tasks include:

- receiving prescriptions, checking patients' medicine histories, and ensuring proper dosage and methods of administration and drug compatibility before dispensing
- preparing or supervising the preparation and labelling of liquid medicines, ointments, powders, tablets and other medications to fill prescriptions
- providing information and advice to prescribers and clients regarding drug interactions, incompatibility and contra-indications, side effects, dosage and proper medication storage
- collaborating with other healthcare professionals to plan, monitor, review, and evaluate the quality and effectiveness of the medicine therapy of individual patients, and the effectiveness of particular drugs or therapies
- maintaining prescription files and recording issue of narcotics, poisons and habit-forming drugs
- storing and preserving vaccines, serums and other drugs subject to deterioration; supplying non-prescription medicines, and diagnostic and therapeutic aids
- supervising and coordinating the work of pharmaceutical technicians, and pharmacy sales assistants
- conducting research to develop and improve pharmaceuticals, cosmetics and related chemical products
- conferring with chemists, engineering professionals and other professionals about manufacturing techniques and ingredients

- testing and analysing drugs to determine their identity, purity and strength in relation to specified standards
- evaluating labels, packaging and advertising of drug products
- developing information and risks of particular drugs

This unit group includes:

- Dispensing pharmacist
- Druggist
- Hospital pharmacist
- Retail pharmacist

This unit group excludes:

- Pharmacologist (2134)
- Pharmaceutical technician (3213)

2263 **Environmental and Occupational Health and Hygiene Professionals**

Environmental and occupational health and hygiene professionals assess, plan and implement programmes to recognise, monitor and control environmental factors that can potentially affect human health, to ensure safe and healthy working conditions, and to prevent disease or injury caused by chemical, physical, radiological and biological agents or ergonomic factors.

Tasks include:

- developing, implementing and reviewing programmes and policies to promote environmental and occupational health
- preparing and implementing plans and strategies for the safe, economic and suitable disposal of commercial, industrial, medical and household wastes
- implementing prevention programmes and strategies for communicable diseases, food safety, waste water treatment and disposal systems, recreation and domestic water quality, contaminated and hazardous substances
- identifying, reporting and documenting hazards, and assessing and controlling risks in the environment and workplace and advising on compliance with relevant law and regulations
- developing, implementing and monitoring programmes to minimise workplace and environmental pollution involving chemical, physical and biological hazards
- prescribing methods to prevent, eliminate, control, or reduce the exposure of workers, patients, the public and/or the environment to radiological and other hazards
- promoting ergonomic principles within the workplace such as matching furniture, equipment and work activities to the needs of employees
- providing education, information, training, and advice to persons at all levels on aspects of occupational hygiene and environmental health
- recording and investigating injuries and equipment damage, and reporting safety performance
- coordinating arrangements for the compensation, rehabilitation and return to work of injured workers

This unit group includes:

- Environmental officer (public health)
- Occupational health and professional

This unit group excludes:

- Environmental protection professional (2133)
- Occupational therapist (3256)
- Environmental public health inspector (3257)

2269 Other Health Professionals Not Elsewhere Classified

This unit group covers other health professionals not classified elsewhere in Sub-Major Group 22 „Health professionals“.

2310 University, Polytechnic and Higher Education Teachers

University, polytechnic and higher education teachers prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university, polytechnic or other higher educational institution. They conduct research, and prepare scholarly papers and books.

Tasks include:

- designing and modifying curricula and preparing courses of study in accordance with requirements
- preparing and delivering lectures and conducting tutorials, seminars and laboratory experiments
- stimulating discussion and independent thought among students
- supervising, where appropriate, experimental and practical work undertaken by students
- administering, evaluating and marking examination papers and tests
- directing research of students or other members of department
- researching into and developing concepts, theories and operational methods for application in industrial and other fields

- preparing scholarly books, papers or articles
- participating in departmental and faculty meetings and in conferences and seminars

This unit group includes:

- University lecturer
- University teacher
- Polytechnic lecturer

This unit group excludes:

- Dean (1345)
- Higher education faculty head (1345)
- Vocational education teacher (2320)

2320 Vocational Education Teachers

Vocational education teachers teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

Tasks include:

- developing curricula and planning course content and methods of instruction
- determining training needs of students or workers and liaising with individuals, industry and other education sectors to ensure provision of relevant education and training programmes
- presenting lectures and conducting discussions to increase students' knowledge and competence
- instructing and monitoring students in the use of tools, equipment and materials and the prevention of injury and damage
- observing and evaluating students' work to determine progress, provide feedback, and make suggestions for improvement
- administering oral, written or performance tests to measure progress, evaluate training effectiveness and assess competency
- preparing reports and maintaining records such as student grades, attendance rolls, and training activity details
- supervising independent or group projects, field placements, laboratory work, or other training
- providing individualised instruction and tutorial or remedial instruction

This unit group includes:

- Secretarial school teacher
- Vocational school teacher

2330 Secondary Education Teachers

Secondary education teachers teach one or more subjects at junior college (including pre-university) and secondary school level.

Tasks include:

- designing and modifying curricula and preparing educational courses of study in accordance with curriculum guidelines
- establishing and enforcing rules for behavior and procedures for maintaining order among students
- preparing and giving lessons, discussions, and demonstrations in one or more subjects
- establishing clear objectives for all lessons, units, and projects and communicating those objectives to students
- preparing materials and classrooms for class activities
- adapting teaching methods and instructional materials to meet students' varying needs and interests
- observing and evaluating students' performance and behaviour
- preparing, administering and marking tests, assignments and examinations to evaluate pupils' progress

- preparing reports about pupils' work and conferring with other teachers and parents
- participating in meetings concerning the school's educational or organisational policies
- planning, organising and participating in school activities such as excursions, sporting events and concerts

This unit group includes:

- Junior college teacher
- Pre-university teacher
- Secondary school teacher
- Technical education teacher (secondary school)

This unit group excludes:

- School cluster superintendent (1345)

2340 **Primary School Teachers**

Primary school teachers teach a range of subjects at the primary education level.

Tasks include:

- preparing daily and longer term lesson plans in accordance with curriculum guidelines
- instructing children individually and in groups, using various teaching methods and materials (e.g. computers, books, games), adapting to children's varying needs
- maintaining discipline and good working habits in the classroom
- planning and conduct activities with the children such as sporting activities, concerts and excursions
- assigning and grading class work and homework
- preparing, administering, and grading tests and assignments to evaluate children's progress
- observing and evaluating children's performance and behaviour
- supervising children during classes and at other times in the school day, including the playground during breaks
- participating in staff meetings and other sessions, and conferring with other teachers concerning educational issues
- prepare for and attending parent meetings to discuss children's progress and problems

This unit group includes:

- Primary school teacher

This unit group excludes:

- Pre-primary education teacher (3611)
- Early childhood educators (3611)

2351 Education Methods Specialists

Education methods specialists conduct research and develop or advise on teaching methods, courses and aids. They review and examine teachers' work, the functioning of educational institutions and the results achieved and recommend changes and improvements.

Tasks include:

- researching into current developments in curricula, teaching methods and other educational practices, and advising on necessary changes and possible improvements
- evaluating and advising on contents of courses and methods of examination
- researching into audio-visual and other teaching aids and advising on, planning and organising their introduction in educational establishments
- documenting subjects and courses developed, and evaluating new courses
- providing ongoing professional development, training and consultative services to teachers
- organising and conducting workshops and conferences to train teachers in new programmes and methods
- developing the structure, content and objectives of new educational courses and programmes
- visiting schools periodically and conferring with administrative and teaching staff on questions relating to curricula, teaching methods, equipment and other matters
- visiting classrooms to observe teaching techniques and to evaluate teachers performance, and scholastic results obtained
- preparing reports and making recommendations to educational authorities concerning possible changes and improvements in curricula, teaching methods, and other matters

This unit group includes:

- Education methods specialist
- Teaching aids specialist
- Visual teaching aids specialist

This unit group excludes:

- Educational psychologist (2634)
- School counsellor (2635)

2352 Special Education Teachers

Special education teachers teach physically or mentally handicapped children, young persons, or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students.

Tasks include:

- assessing students' abilities and limitations with regard to intellectual, physical, social and emotional impairments, exceptional intellectual gifts, or other specific problems
- designing or modifying curricula and preparing and delivering programmes, lessons and activities adapted to students' abilities and needs

- giving instruction on an individual or group basis using special techniques or aids appropriate to students' needs
- employing special educational strategies and techniques during instruction to improve the development of sensory- and perceptual-motor skills, language, cognition, and memory
- establishing and enforcing rules for behaviour and policies and procedures to maintain order among students
- teaching academic subjects, and practical and self-help skills to students with hearing, sight and other impairments
- stimulating and developing students' confidence interests, abilities, manual skills and coordination
- conferring with other staff members to plan and schedule lessons for special needs students
- preparing and maintaining student data and other records and submitting reports
- administering various forms of assessment and evaluating progress of each student
- conferring with students, parents, head teacher and other relevant professionals involved in the students' care to develop individual educational plans designed to promote students' development

This unit group includes:

- Teacher of the mute
- Teacher of the mentally handicapped
- Teacher of the deaf
- Teacher of the blind

This unit group excludes:

- Vocational education teacher (2320)
- Secondary school teacher (2330)
- Primary school teacher (2340)

2359 **Other Teaching Professionals Not Elsewhere Classified**

This unit group covers teaching professionals not classified elsewhere in Sub-Major Group 23 „Teaching professionals“.

2411 **Accountants**

Accountants plan, organise and administer accounting systems for individuals and establishments. They examine and analyse the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.

Tasks include:

- advising on, planning and installing budgetary, accounts controlling and other accounting policies and systems
- preparing and certifying financial statements for presentation to management, shareholders and statutory or other bodies
- preparing tax returns, advising on taxation problems and contesting disputed claims before tax officials
- preparing or reporting on profit forecasts and budgets

- conducting financial investigations in such matters as suspected fraud, insolvency and bankruptcy
- auditing accounts and bookkeeping records
- conducting investigations and advising management on financial aspects of productivity, stockholdings, sales, new products, etc.
- devising and controlling a system to determine unit cost of products and services

This unit group includes:

- Accountant
- Chartered accountant
- Auditor

This unit group excludes:

- Assistant accountant (3313)
- Bookkeeper (4311)

2412 **Financial and Investment Advisers**

Financial and investment advisers develop financial plans for individuals and organisations, and invest and manage funds on their behalf.

Tasks include:

- building and maintaining a client base
- interviewing clients to determine financial status and objectives, risk tolerance and other information needed to develop financial plans and investment strategies
- setting financial objectives, and developing and implementing strategies for achieving the financial objectives
- arranging to buy and sell stocks and bonds for clients
- monitoring investment performance, and reviewing and revising investment plans based on modified needs and changes in markets
- Providing consultancy services to individuals and organisations to advise them on better financial and investments managements

This unit group includes:

- Financial investment adviser

This unit group excludes:

- Insurance agent (3321)
- Independent financial planner (3321)

2413 **Financial Analysts and Related Professionals**

Financial analysts and related professionals conduct quantitative analyses of information affecting investment programmes of public or private institutions.

Tasks include:

- analysing financial information to produce forecasts of business, industry, and economic conditions for use in making investment decisions
- maintaining knowledge and staying abreast of developments in the fields of industrial technology, business, finance, and economic theory

- interpreting data affecting investment programmes, such as price, yield, stability, future trends in investment risks, and economic influences
- monitoring fundamental economic, industrial, and corporate developments through the analysis of information obtained from financial publications and services, investment banking firms, government agencies, trade publications, company sources, and personal interviews
- recommending investments and investment timing to companies, investment firm staff, or the investing public
- determining the prices at which securities should be syndicated and offered to the public
- preparing plans of action for investment based on financial analyses
- evaluating and comparing the relative quality of various securities in a given industry
- presenting oral and written reports on general economic trends, individual corporations, and entire industries

This unit group includes:

- Risk analyst
- Credit analyst
- Equities analyst
- Fund manager
- Treasury manager
- Financial product structurer

This unit group excludes:

- Business consultant (2421)

2421 **Management and Business Consultants**

Management and business consultant assist organisations to achieve greater efficiency and solve business problems. They study business structures, methods, systems and procedures.

Tasks include:

- assisting and encouraging the development of objectives, strategies and plans aimed at achieving customer satisfaction and the efficient use of organisations' resources
- analysing and evaluating current systems and structures
- discussing current systems with staff and observing systems at all levels of organisation
- directing clients towards more efficient organisation and developing solutions to business problems
- undertaking and reviewing work studies by analysing existing and proposed methods and procedures such as administrative and clerical procedures
- recording and analysing organisations' work flow charts, records, reports, manuals and job descriptions
- preparing and recommending proposals to revise methods and procedures, alter work flows, redefine job functions and resolve organisational problems
- assisting in implementing approved recommendations, issuing revised instructions and procedure manuals, and drafting other documentation

- reviewing operating procedures and advising of departures from procedures and standards

This unit group includes:

- Business consultant
- Management consultant

This unit group excludes:

- IT business consultants (2511)

2422 **Policy Administration Professionals**

Policy administration professionals develop and analyse policies guiding the design, implementation and modification of government and commercial operations and programmes.

Tasks include:

- liaising and consulting with programme administrators and other interested parties to identify policy needs
- reviewing existing policies and legislation to identify anomalies and out-of-date provisions
- researching social, economic and industrial trends, and client expectations of programmes and services provided
- formulating and analysing policy options, preparing briefing papers and recommendations for policy changes, and advising on preferred options
- assessing impacts, financial implications, interactions with other programmes and political and administrative feasibility of policies
- conducting threat and risk assessments and developing responses
- reviewing operations and programmes to ensure consistency with policies of the organisation

This unit group includes:

- Policy analyst

This unit group excludes:

- Management consultant (2421)
- Business consultant (2421)

2423 **Human Resource Professionals**

Human resource professionals provide professional business services related to human resource policies such as employee (senior level) recruitment or development, occupational analyses and compensation policies.

Tasks include:

- provide consultancy services on personnel functions relating to employee recruitment, placement, training, promotion, compensation, and employee-management relations or other areas of personnel policy
- studying and analysing jobs performed in an establishment by various means, including interviews with workers, supervisors and management, and writing detailed position, job or occupation descriptions from information obtained

- preparing occupational information or working on occupational classification systems
- advising and working on the foregoing and other aspects of job and occupation analyses in such fields as personnel administration, workforce research and planning, training, or occupational information and vocational guidance

This unit group includes:

- Human resource consultant
- Executive search consultant

This unit group excludes:

- Personnel/Human resource officer (3346)
- Training officer (3346)

2431 **Advertising and Marketing Professionals**

Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.

Tasks include:

- planning, developing and organising advertising policies and campaigns to support sales objectives
- advising managers and clients on strategies and campaigns to reach target markets, creating consumer awareness and effectively promoting the attributes of goods and services
- writing advertising copy and media scripts, and arranging television and film production and media placement
- analysing data regarding consumer patterns and preferences
- interpreting and predicting current and future consumer trends
- researching potential demand and market characteristics for new goods and services and collecting and analysing data and other statistical information
- supporting business growth and development through the preparation and execution of marketing objectives, policies and programmes
- commissioning and undertaking market research to identify market opportunities for new and existing goods and services
- advising on all elements of marketing such as product mix, pricing, advertising and sales promotion, selling, and distribution channels

This unit group includes:

- Market research analyst
- Market researcher
- Creative director (advertising)

2432 **Public Relations Professionals**

Public relations professionals plan, develop and evaluate information and communication strategies for clients that create an understanding and a favourable view of businesses and other organisations, their goods and services, and their role in the community.

Tasks include:

- provide consultancy services on planning and organising publicity campaigns and communication strategies
- undertaking and commissioning public opinion research, analysing the findings and planning public relations and promotional campaigns

This unit group includes:

- Public relations consultant

This unit group excludes:

- Public relations officer (3345)

2511 **Systems Analysts**

Systems analysts conduct research, analyse and evaluate client information technology requirements, procedures or problems, and develop and implement proposals, recommendations, and plans to improve current or future information systems.

Tasks include:

- consulting with users to formulate and document requirements and with management to ensure agreement on systems principles
- identifying and analysing business processes, procedures and work practices
- identifying and evaluating inefficiencies and recommending optimal business practices, and system functionality and behaviour
- taking responsibility for deploying functional solutions, such as creating, adopting and implementing system test plans
- developing functional specifications for use by systems developers
- expanding or modifying systems to improve work flow or serve new purposes
- coordinating and linking the computer systems within an organisation to increase compatibility

This unit group includes:

- Systems designer
- Systems analyst
- Network systems analyst
- IT business analyst
- IT business process consultant

This unit group excludes:

- Systems programmer (2514)

2512 Software, Web and Multimedia Developers

Software, web and multimedia developers research, analyse and evaluate requirements for existing or new software, web and multimedia applications. They also design, develop, test and maintain software, web and multimedia solutions to meet the requirements.

Tasks include:

- researching, analysing and evaluating requirements for software, web and multimedia applications
- designing, and developing computer software, web and multimedia systems
- designing and developing digital animations, imaging, presentations, games, audio and video clips, and Internet applications using multimedia software, tools and utilities, interactive graphics and programming languages
- consulting with engineering staff to evaluate interface between hardware and software
- developing and directing software testing and validation procedures
- modifying existing software to correct errors, to adapt it to new hardware or to upgrade interfaces and improve performance
- directing software programming and development of documentation
- assessing, developing, upgrading and documenting maintenance procedures for software, web and multimedia applications
- assisting in analysing, specifying and developing Internet strategies, web-based methodologies and development plans
- consulting with customers concerning maintenance of software, web and multimedia systems

This unit group includes:

- Software developer
- Web developer
- Multimedia developer
- computer games developer

This unit group excludes:

- Applications programmer (2514)

2514 Applications and Systems Programmers

Applications and systems programmers write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.

Tasks include:

- writing and maintaining programme code outlined in instructions and specifications in accordance with quality accredited standards
- revising, repairing or expanding existing programmes to increase operating efficiency or adapt to new requirements
- conducting trial runs of programmes and software applications to confirm that they will produce the desired information

- compiling and writing documentation of programme development
- identifying and communicating technical problems, processes and solutions

This unit group includes:

- Applications programmer
- Systems programmer

This unit group excludes:

- Software developer (2512)
- Web developer (2512)
- Multimedia developer (2512)

2515 **Information Technology Testing and Quality Assurance Professionals**

Information technology (IT) testing and quality assurance professionals specialise in quality assurance including software testing.

Tasks include:

- developing and documenting software testing plans
- installing software and hardware and configuring operating system software in preparation for testing
- verifying that programmes function according to user requirements and established guidelines
- executing, analysing and documenting results of software application tests and information and telecommunication systems tests
- developing and implementing software and information system testing policies, procedures and scripts

This unit group includes:

- IT testing specialist
- IT quality assurance specialist
- IT auditor

This unit group excludes:

- IT security specialist (2524)

2516 **Information Technology Project Managers**

Information technology project managers plan, direct and coordinate information technology projects.

Tasks include:

- consulting with users, to assess computing needs and system requirements and specifying technology to meet those needs
- formulating and directing information and communication technology (ICT) strategies and plans
- directing the selection and installation of ICT resources and the provision of user training
- directing ICT operations, analysing workflow, establishing priorities, developing standards and setting deadlines

- establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources

This unit group includes:

- IT project manager

This unit group excludes:

- Information and communication technology service manager (1330)
- IT service manager (1330)

2519 **Software and Applications Developers and Analysts Not Elsewhere Classified**

This unit group covers professionals not classified elsewhere in Minor Group 251, software and applications developers and analysts.

This unit group includes:

- Artificial intelligence specialist

2521 **Database Designers and Administrators**

Database designers and administrators design, develop, control, maintain and support the optimal performance and security of databases.

Tasks include:

- designing and developing database architecture, data structures, tables, dictionaries and naming conventions for information systems projects
- designing, constructing, modifying, integrating, implementing and testing database management systems
- conducting research and providing advice on the selection, application and implementation of database management tools
- developing and implementing data administration policy, documentation, standards and models
- developing policies and procedures for database access and usage and for the backup and recovery of data
- performing the operational establishment and preventive maintenance of backups, recovery procedures, and enforcing security and integrity controls

This unit group includes:

- Database administrator
- Database architect

This unit group excludes:

- Computer systems administrator (2522)
- Network administrator (2522)
- Website administrator (3514)

2522 **Network and Computer Systems Administrators**

Network and computer systems administrators develop, control, maintain and support the optimal performance and security of information technology systems.

Tasks include:

- maintaining and administering computer networks and related computing environments including computer network, systems software, applications software and all configurations
- recommending changes to improve systems and network configurations, and determining hardware or software requirements related to such changes
- diagnosing network and system problems
- performing data backups and disaster recovery operations
- operating master consoles to monitor the performance of computer systems and networks, and to coordinate computer network access and use

This unit group includes:

- Computer systems administrator
- Network administrator

This unit group excludes:

- Data administrator (2521)
- Database administrator (2521)
- Website administrator (3514)
- Network architect (2523)
- Network engineer (2523)

2523 **Computer Network Professionals**

Computer network professionals research, analyse and recommend strategies for network infrastructure and development. They also implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimise performance.

Tasks include:

- analysing, developing, interpreting and evaluating complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems
- researching, analysing, evaluating and monitoring network infrastructure to ensure networks are configured to operate at optimal performance
- assessing and recommending improvements to network operations and integrated hardware, software, communications and operating systems
- providing specialist skills in supporting and troubleshooting network problems and emergencies
- installing, configuring, testing, maintaining and administering new and upgraded networks, software database applications, servers and workstations
- preparing and maintaining procedures and documentation for network inventory, and recording diagnosis and resolution of network faults, enhancements and modifications to networks, and maintenance instructions
- monitoring network traffic, and activity, capacity and usage to ensure continued integrity and optimal network performance

This unit group includes:

- Network architect
- Network engineer
- Infrastructure architect
- Infrastructure engineer

2524 Information Technology Security Specialists

Information technology security specialists specialise in providing security assurance of information technology systems.

Tasks include:

- developing plans to safeguard computer files against accidental or unauthorised modification, destruction, or disclosure and to meet emergency data processing needs
- training users and promoting security awareness to ensure system security and to improve server and network efficiency
- conferring with users to discuss issues such as computer data access needs, security violations, and programming changes
- monitoring current reports of computer viruses to determine when to update virus protection systems
- modifying computer security files to incorporate new software, correct errors, or change individual access status
- monitoring use of data files and regulate access to safeguard information in computer files
- performing risk assessments and executing tests of data processing system to ensure functioning of data processing activities and security measures
- encrypting data transmissions and erecting firewalls to conceal confidential information as it is being transmitted and to keep out tainted digital transfers

This unit group includes:

- IT security specialist

This unit group excludes:

- IT testing security specialist (2515)
- IT quality assurance specialist (2515)

2529 Database and Network Professionals Not Elsewhere Classified

This unit group covers database and networking professionals elsewhere in Minor Group 252 „Database and network professionals“.

2611 Lawyers

Lawyers give clients legal advice on a wide variety of subjects, draw up legal documents, represent clients before administrative boards or tribunals and plead cases or conduct prosecutions in courts of justice. Law graduates undergoing pupillage are also classified here

Tasks include:

- giving clients legal advice on a wide variety of subjects and undertaking legal business on clients' behalf
- researching legal principles, statutes and previous court decisions related to specific cases
- gathering evidence to formulate a defence or to initiate legal actions, by such means as interviewing clients and witnesses to ascertain the facts of a case

- evaluate findings and develop strategies and arguments in preparation for presentation of cases
- pleading clients' cases before courts of law, tribunals and administrative boards or instructing barristers to plead in higher courts of justice
- accepting briefs and pleading in the higher court
- acting as prosecutor on behalf of the Government in criminal cases
- negotiating settlements in matters which involve legal disputes
- drafting legislation and preparing government regulations based on existing laws
- drawing up legal documents such as contracts, real estate transactions and wills and preparing statements of legal opinions

This unit group includes:

- Attorney
- Barrister
- Lawyer
- Public prosecutor
- Solicitor

This unit group excludes:

- Judge (2612)
- Legal clerk (4417)

2612 **Judges**

Judges preside over civil and criminal proceedings in courts of law.

Tasks include:

- presiding over trials and hearings
- interpreting and enforcing rules of procedure and making rulings regarding the admissibility of evidence
- determining the rights and obligations of the parties involved
- weighing and considering evidence in non-jury trials and deciding legal guilt or innocence or degree of liability of the accused or defendant
- passing sentence on persons convicted in criminal cases, determining damages or other appropriate remedy in civil cases and issuing court orders
- researching legal issues and writing opinions on the issues

This unit group includes:

- Chief justice
- Coroner
- Judge
- Magistrate

This unit group excludes:

- Lawyer (2611)

2621 Archivists, Curators and Conservators

Archivists, curators and conservators collect, appraise and ensure the safekeeping and preservation of the contents of archives, artefacts and records of historical, cultural, administrative and artistic interest, and of art and other objects. They plan, devise and implement systems for the safekeeping of records and historically valuable documents

Tasks include:

- evaluating and preserving records for administrative, historical, legal, evidential and other purposes
- directing or carrying out the preparation of indexes, bibliographies, microfilm copies and other reference aids to the collected material and making them available to users
- researching the origin, distribution and use of materials and objects of cultural and historical interest
- organising, developing and maintaining collections of artistic, cultural, scientific or historically significant items
- directing or undertaking classification and cataloguing of museum and art gallery collections and organising exhibitions
- researching into, appraising, and developing, organising and preserving historically significant and valuable documents such as government papers, private papers, photographs, maps, manuscripts audio-visual materials
- preparing scholarly papers and reports
- planning and implementing the computerised management of archives and electronic records
- organising exhibitions at museums and art galleries, publicising exhibits and arranging special displays for general, specialised or educational interest
- appraising and acquiring archival materials to build and develop an archival collection for research purposes

This unit group includes:

- Archivist
- Art gallery curator
- Museum curator
- Conservator (art works)

2622 Librarians and Related Information Professionals

Librarians and related information professionals collect, select, develop, organise and maintain library collections and other information repositories. They also organise and control other library services and provide information for users.

Tasks include:

- organising, developing and maintaining a systematic collection of books, periodicals and other printed, audio-visually and digitally recorded material
- selecting and recommending acquisitions of books and other printed or audio-visually and digitally recorded material
- organising, classifying and cataloguing library material
- managing library borrowing and inter-library loan facilities and information networks

- retrieving material and providing information to business and other users based on the collection itself or on library and information-network systems
- conducting research and analysing or modifying library and information services in accordance with changes in users' needs
- devising and implementing schemes and conceptual models for the storage, organisation, classification and retrieval of information
- preparing scholarly papers and reports
- performing manual, on-line and interactive media reference searches, making interlibrary loans and performing other functions to assist users in accessing library materials

This unit group includes:

- Bibliographer
- Cataloguer
- Librarian

This unit group excludes:

- Library clerk (4411)
- Library attendant (9625)
- Library officer (3433)

2631 **Economists**

Economists conduct research, monitor data, analyse information and prepare reports and plans to resolve economic and business problems and develop models to analyse, explain and forecast economic behaviour and patterns. They provide advice to business, interest groups and governments to formulate solutions to present or projected economic and business problems.

Tasks include:

- forecasting changes in the economic environment for short-term budgeting, long-term planning and investment evaluation
- formulating recommendations, policies and plans for the economy, corporate strategies and investment, and undertaking feasibility studies for projects
- monitoring economic data to assess the effectiveness, and advise on the appropriateness, of monetary and fiscal policies
- forecasting production and consumption of specific products and services based on records of past production and consumption and general economic and industry-specific conditions
- preparing forecasts of income and expenditure, interest rates and exchange rates
- analysing factors that determine labour force participation, employment, wages, unemployment and other labour market outcomes
- applying mathematical formulae and statistical techniques and apply to test economic theories and devise solutions to economic problems
- compiling, analysing and interpreting economic data using economic theory and a variety of statistical and other techniques
- advising on economic policy and possible courses of action in the light of past, present and projected economic factors and trends
- preparing scholarly papers and reports
- examining problems related to the economic activities of individual companies

- conducting research on market conditions in local, regional or national areas to set sales and pricing levels for goods and services, to assess market potential and future trends and to develop business strategies

This unit group includes:

- Econometrician
- Economist

This unit group excludes:

- Statistician (2122)

2632 **Sociologists, Anthropologists and Related Professionals**

Sociologists, anthropologists and related professionals investigate and describe the structure of societies, the origin and evolution of humanity, and the interdependence between environmental conditions and human activities. They make the knowledge obtained available as a basis for policy decisions.

Tasks include:

- conducting research on the origin, development, structure, social patterns, organisations and inter-relationships of human society
- tracing the origin and evolution of humanity through the study of changing characteristics and cultural and social institutions
- tracing the development of humanity through the material remains of its past, such as dwellings, temples, tools, pottery, coins, weapons, or sculpture
- studying physical and climatic aspects of areas and regions, and correlating these findings with economic, social and cultural activities
- advising on the practical application of these findings in the formulation of economic and social policies for population groups and regions, and for the development of markets
- preparing scholarly papers and reports

This unit group includes:

- Anthropologist
- Ethnologist
- Sociologist
- Social research analyst

This unit group excludes:

- Geographer (2633)
- Archaeologist (2633)

2633 **Historians, Political Scientists and Other Social Science Professionals**

Historians, political scientists and other social science professionals conduct research into the nature of human experience and existence, phases or aspects of past human activities, and political structures, movements and behaviour. They document and report on findings to inform and guide political and individual actions

Tasks include:

- researching, mostly by reasoning, into the general causes, principles and meanings of the world, human actions, experience and existence, and interpreting and developing philosophical concepts and theories
- consulting and comparing primary sources, such as original or contemporary records of past events, and secondary sources such as archaeological or anthropological findings
- extracting relevant material, checking its authenticity, and researching into and describing the history of a particular period, country or region, or a particular facet - for example economic, social or political - of its history
- conducting research in such fields as political philosophy, or past and present theory and practice of political systems, institutions or behaviour
- observing contemporary political institutions and opinions, collecting data on them from various sources, including interviews with government and political party officials and other relevant persons
- presenting findings and conclusions for publication or use by government, political parties or other organisations and interested persons
- preparing scholarly papers and reports

This unit group includes:

- Historian
- Philosopher
- Political scientist
- Geographer
- Archaeologist

2634 **Psychologists**

Psychologists research into and study the mental processes and behaviour of human beings as individuals or in groups, and apply this knowledge to promote personal, social, educational or occupational adjustment and development.

Tasks include:

- planning and carrying out tests to measure mental, physical and other characteristics such as intelligence, abilities, aptitudes, potentialities, etc., interpreting and evaluating results, and providing advice
- analysing the effect of heredity, social, occupational and other factors on individual thought and behaviour
- conducting counselling or therapeutic interviews with individuals and groups, and providing follow-up services
- maintaining required contacts, such as those with family members, educational authorities or employers, and recommending possible solutions to, and treatment of, problems
- studying psychological factors in the diagnosis, treatment and prevention of mental illnesses and emotional or personality disorders, and conferring with related professionals
- preparing scholarly papers and reports
- formulating achievement, diagnostic and predictive tests for use by teachers in planning methods and content of instruction

This unit group includes:

- Clinical psychologist
- Educational psychologist
- Occupational psychologist
- Forensic psychologist

2635 **Social Work and Counselling Professionals**

Social work and counselling professionals provide advice and guidance to individuals, families, groups, communities and organisations in response to social and personal difficulties. They assist clients to develop skills and access resources and support services needed to respond to issues arising from unemployment, poverty, disability, addiction, criminal and delinquent behaviour, marital and other problems.

Tasks include:

- interviewing clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required
- analysing the client's situation and presenting alternative approaches to resolving problems
- compiling case records or reports for courts and other legal proceedings
- providing counselling, therapy and mediation services and facilitating group sessions to assist clients to develop skills and insights needed to deal with and resolve their social and personal problems
- planning and implementing programmes of assistance for clients including crisis intervention and referral to agencies that provide financial assistance, legal aid, housing, medical treatment and other services
- investigating cases of abuse or neglect and taking action to protect children and other at risk persons
- working with offenders during and after sentence, to help them to integrate into the community and to change attitudes and behaviour in order to reduce further offending
- providing advice to prison governors and to probation and parole review boards that help determine whether, and under what conditions, an offender should be incarcerated, released from prison or undergo alternative correctional measures
- acting as advocates for client groups in the community and lobbying for solutions to problems affecting them
- developing prevention and intervention programmes to meet community needs
- maintaining contact with other social service agencies, educational institutions and healthcare providers involved with clients to provide information and obtain feedback on clients' overall situation and progress

This unit group includes:

- Addictions counsellor
- Child and youth counsellor
- Family counsellor
- Marriage counsellor
- Parole officer
- Probation officer
- Social worker

This unit group excludes:

- Youth worker (3412)

2641 **Authors and Related Writers**

Authors and related writers plan, research and write books, scripts, storyboards, plays, essays, speeches, manuals, specifications and other non-journalistic articles for publication or presentation.

Tasks include:

- conceiving, writing and editing novels, plays, scripts, poetry and other material for publication or presentation
- conducting research to establish factual content and to obtain other necessary information
- writing scripts and continuities and preparing programmes for stage, film, radio and television productions
- analysing material, such as specifications, notes and drawings, and writing manuals, user guides and other documents to explain clearly and concisely the installation, operation and maintenance of software, electronic, mechanical and other equipment
- writing brochures, handbooks and similar technical publications
- selecting material for publication, checking style, grammar and accuracy of content, arranging for any necessary revisions and checks proof copies before printing

This unit group includes:

- Author
- Book editor
- Essayist
- Novelist
- Playwright
- Poet
- Script writer
- Technical writer
- Writer

This unit group excludes:

- Journalist (2642)
- Newspaper editor (2642)

2642 **Journalists**

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.

Tasks include:

- collecting local, national and international news through interviews, investigation and observation, attending public events, seeking out records, reviewing written work, attending film and stage performances

- collecting, reporting and commenting on news and current affairs for publication in newspapers and periodicals, or for broadcasting by radio, television or webcast media
- receiving, analysing and verifying news and other copy for accuracy
- interviewing politicians and other public figures at press conferences and on other occasions, including individual interviews recorded for radio, television or webcast media
- researching and reporting on developments in specialised fields such as medicine, science and technology
- writing editorials and commentaries on topics of current interest to stimulate public interest and express the views of a publication or broadcasting station
- writing critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience for newspapers, television, radio and other media
- selecting material for publication, checking style, grammar, accuracy and legality of content and arranging for any necessary revisions
- liaising with production staff in checking final proof copies immediately prior to printing
- selecting, assembling and preparing publicity material about business or other organisations for issue through press, radio, television and other media

This unit group includes:

- Journalist
- Broadcast journalist
- Newspaper editor
- Sports editor
- Sub-editor

This unit group excludes:

- Book author (2641)
- Book editor (2641)
- Photo journalist (3431)

2651 **Visual Artists**

Visual artists create and execute works of art by sculpting, painting, drawing, creating cartoons, engraving or using other techniques.

Tasks include:

- conceiving and developing ideas, designs and styles for paintings, drawings and sculptures
- arranging objects, positioning models, and selecting landscapes and other visual forms according to chosen subject matter
- selecting artistic media, method and materials
- creating representational or abstract three-dimensional or relief forms by shaping, carving and working and combining materials such as, wood, stone, clay, metal, ice or paper
- creating representational or abstract drawings and paintings using pencils, ink, chalk, oil paints, water colours or through the application of other techniques
- creating drawings and engraving or etching them on metal, wood, or other materials

- creating cartoons to depict persons and events, often in caricature
- restoring damaged, soiled and faded paintings and other art objects

This unit group includes:

- Cartoonist
- Ceramics artist
- Motion picture cartoonist
- Painting restorer
- Picture restorer
- Portrait painter
- Sculptor

This unit group excludes:

- Industrial product designer (3435)
- Graphic and multimedia designers (3435)
- Art and craft instructor (3620)

2652 **Musicians, Composers and Singers**

Musicians, composers and singers write, arrange, conduct and perform musical compositions.

Tasks include:

- creating melodic, harmonic and rhythmic structures to express ideas and emotions in musical form
- translating ideas and concepts into standard musical signs and symbols for reproduction and performance
- adapting or arranging music for particular instrumental or vocal groups, instruments or occasions
- conducting instrumental or vocal groups
- selecting music for performances and assigning instrumental parts to musicians
- playing one or more musical instruments as a soloist or as a member of an orchestra or a musical group
- singing as soloists or members of vocal groups or other bands
- practicing and rehearsing to maintain a high standard of performance

This unit group includes:

- Band leader
- Composer
- Instrumentalist
- Music conductor
- Orchestrator
- Singer

This unit group excludes:

- Choreographer (2653)
- Dancer (2653)

2653 Dancers and Choreographers

Dancers and choreographers conceive and create or perform dances.

Tasks include:

- conceiving and creating dances, which often convey a story, theme, idea or mood, by a pattern of steps, movements and gestures
- performing dances as a soloist, with a partner or as a member of a dancing group before live audiences or for film, television or other visual media
- training, exercising and attending dance classes to maintain the required levels of ability and fitness
- directing and participating in rehearsals to practice dance steps and techniques required for a performance
- auditioning for dance roles or for memberships in dance companies
- coordinating the production music with the music directors

This unit group includes:

- Choreographer
- Ballet dancer

This unit group excludes:

- Dance instructor (3620)

2654 Film, Stage and Related Directors and Producers

Film, stage and related directors and producers oversee and control the technical and artistic aspects of motion pictures, television or radio productions and stage shows.

Tasks include:

- choosing writers, studying scripts to determine artistic interpretation, instructing actors on acting methods
- directing all aspects of dramatic productions on stage, television, radio or in motion pictures, including choice of actors, and final decisions concerning costumes, set designs, sound or lighting effects
- planning, organising and controlling the various stages and scheduling involved in the production of presentations, motion pictures, television shows and radio programmes
- engaging and supervising all technical personnel, and determining the treatment, scope and scheduling of production
- maintaining production archives and negotiating royalties
- creating, planning, writing scripts for recording, videotaping and editing programmes
- supervising the positioning of scenery, props and lighting and sound equipment

This unit group includes:

- Artistic director
- Film editor
- Motion picture director
- Stage director

- Stage manager
- Theatre producer

This unit group excludes:

- Broadcasting operations technician (3521)
- Sound recording equipment operator (3521)
- Video camera operator (3521)
- Motion picture camera operator (3521)
- Radio and television studio equipment operator (3521)

2655 **Actors**

Actors portray roles in motion pictures, television or radio productions and stage shows.

Tasks include:

- learning lines and cues and playing parts in dramatic productions on stage, commercials, television, radio or in motion pictures
- assuming characters created by a playwright or author and communicating this to an audience
- telling stories or reading literary works aloud to educate or entertain listeners
- preparing for performances through rehearsals under the instruction and guidance of production directors
- reading scripts and undertaking research to gain understanding of parts, themes and characteristics
- acting parts and portraying roles as developed in rehearsals in film, television, radio and stage productions

This unit group includes:

- Actor
- Dramatic actor
- Impersonator

2901 **Religious Professionals**

Religious professionals function as perpetrators of sacred traditions, practices and beliefs. They conduct religious services, celebrate or administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion.

Tasks include:

- perpetuating sacred traditions, practices and beliefs
- conducting religious services, rites and ceremonies
- undertaking various administrative and social duties, including participating in committees and meetings of religious organisations
- providing spiritual and moral guidance in accordance with the religion professed
- propagating religious doctrines in own country or abroad
- preparing religious sermons and preachings
- developing and directing study courses and religious education programmes
- counselling individuals regarding interpersonal, health, financial, and religious problems
- scheduling and participating in special events such as camps, conferences, seminars, and retreats

This unit group includes:

- Priest
- Rabbi
- Minister of religion
- Curate
- Missionary
- Salvationist
- Theologian

This unit group excludes:

- Monk (3991)
- Nun (3991)

2909 **Other Professionals Not Elsewhere Classified**

This unit group covers professionals not classified elsewhere in Major Group 2, professionals.

3100 Assistant Engineers

Assistant engineers assist in the development of operational methods in engineering, design of structures, machinery and equipment or application of existing knowledge to solve engineering problems.

Tasks include:

- assisting in the design of new products
- developing or improving production processes
- assisting in technical supervision of manufacture, utilisation, maintenance and repair of structures, machinery and equipment

This unit group includes:

- Assistant electrical engineer
- Assistant mechanical engineer
- Assistant manufacturing engineer

This unit group excludes:

- Civil engineering technician (3112)
- Electrical engineering technician (3113)
- Electronics engineering technician (3114)
- Mechanical engineering technician (3115)
- Chemical engineering technician (3116)
- Manufacturing engineering technician (3117)

3111 Chemical and Physical Science Technicians

Chemical and physical science technicians perform technical tasks to aid in research in chemistry, physics, geology, geophysics, meteorology and astronomy, and in the development of industrial, medical, military and other practical applications of research results.

Tasks include:

- collecting samples and preparing materials and equipment for experiments, tests and analyses
- carrying out routine laboratory tests and performing a variety of technical support functions to assist chemical and physical scientists in research, development, analysis and testing
- controlling the quality and quantity of laboratory supplies by testing samples and monitoring usage and preparing detailed estimates of quantities and costs of materials and labour required for projects, according to the specifications given
- setting up, operating, and maintaining laboratory instruments and equipment, monitoring experiments, making observations, and calculating and recording results
- preparing materials for experimentation such as freezing and slicing specimens and mixing chemicals
- collecting and testing earth and water samples, recording observations and analysing data in support of geologists or geophysicists

This unit group includes:

- Chemistry technician
- Physics technician
- Geology technician
- Meteorological technician

This unit group excludes:

- Assistant chemical engineer (3100)
- Chemical engineering technician (3116)
- Life science technician (except medical) (3141)

3112 **Civil Engineering Technicians**

Civil engineering technicians perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures, such as water supply and wastewater treatment systems, bridges, roads, dams and airports.

Tasks include:

- performing or assisting with field and laboratory tests of soils and construction materials using various computer software packages including spreadsheets to provide administrative support
- providing technical assistance connected with the construction of buildings and other structures, and with surveys or the preparation of survey reports
- ensuring compliance with design specifications, relevant legislation and regulations, and maintenance of desired standards of materials and work
- applying technical knowledge of building and civil engineering principles and practices in order to identify and solve problems arising
- assisting with the preparation of detailed estimates of quantities and costs of materials and labour required for projects, according to the specifications given
- organising maintenance and repairs
- supervising other workers

This unit group includes:

- Civil engineering technician
- Structural technician
- Land surveying technician
- Resident technical officer

This unit group excludes:

- Assistant civil and structural engineer (3100)
- Marine surveyor (3115)
- Airworthiness surveyor (3115)

3113 Electrical Engineering Technicians

Electrical engineering technicians perform technical tasks to aid in electrical engineering research and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.

Tasks include:

- providing technical assistance in research on and development of electrical equipment and facilities, or testing prototypes
- designing and preparing blueprints of electrical installations and circuitry according to the specifications given
- preparing detailed estimates of quantities and costs of materials and labour required for manufacture
- monitoring technical aspects of the manufacture, installation, utilisation, maintenance and repair of electrical systems and equipment to ensure satisfactory performance and compliance with specifications and regulations
- planning installation methods, checking completed installation for safety and controls or undertaking the initial running of the new electrical equipment or systems
- assembling, installing, testing, calibrating, modifying and repairing electrical equipment and installations to conform with regulations and safety requirements

This unit group includes:

- Electrical engineering technician (general)
- Electrical engineering technician (high voltage)

This unit group excludes:

- Assistant electronics engineer (3100)
- Electronics engineering technician (3114)
- Electrical mechanic (7412)
- Electrical equipment/component assembler (8212)

3114 Electronics Engineering Technicians

Electronics engineering technicians perform technical tasks to aid in electronic research and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.

Tasks include:

- providing technical assistance in research and development of electronic equipment, or testing prototypes
- designing and preparing blueprints of electronic circuitry according to the specifications given
- preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of electronic equipment, according to the specifications given
- monitoring technical aspects of the manufacture, utilisation, maintenance and repair of electronic equipment to ensure satisfactory performance and ensure compliance with specifications and regulations
- assisting in the design, development, installation, operation and maintenance of electronic systems
- planning installation methods, checking completed installation for safety and

controls or undertaking the initial running of the new electronic equipment or system

- conducting tests of electronic systems, collecting and analysing data, and assembling circuitry in support of electronics engineers

This unit group includes:

- Semi-conductor technician
- Audio and video equipment technician
- Instrumentation technician

This unit group excludes:

- Assistant electronics engineer (3100)
- Electrical engineering technician (3113)
- Telecommunications technician (3522)
- Electronics mechanic (7421)
- Electronics equipment/component assembler (8212)

3115 **Mechanical Engineering Technicians**

Mechanical engineering technicians perform technical tasks to aid in mechanical engineering research and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.

Tasks include:

- providing technical assistance in research on and development of machines and mechanical installations, facilities and components, or testing prototypes
- designing and preparing layouts of machines and mechanical installations, facilities and components according to the specifications given
- preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation according to the specifications given
- monitoring technical aspects of manufacture, utilisation, maintenance and repair of machines and mechanical installations, facilities and components to ensure satisfactory performance and compliance with specifications and regulations
- developing and monitoring the implementation of safety standards and procedures for marine survey work in relation to ships' hulls, equipment and cargoes
- assembling and installing new and modified mechanical assemblies, components, machine tools and controls, and hydraulic power systems
- conducting tests of mechanical systems, collecting and analysing data, and assembling and installing mechanical assemblies in support of mechanical engineers
- ensuring that mechanical engineering designs and finished work are within specifications, regulations and contract provisions

This unit group includes:

- Aeronautical engineering technician
- Automotive engineering technician
- Marine surveyor
- Airworthiness surveyor

This unit group excludes:

- Assistant mechanical engineer (3100)
- Aircraft engine mechanic (7232)
- Machinery mechanic (7233)

3116 Chemical Engineering Technicians

Chemical engineering technicians perform technical tasks to aid in chemical engineering research and in the design, manufacture, construction, operations, maintenance and repair of chemical plants.

Tasks include:

- assisting in research on and development of industrial chemical processes, plant and equipment, or testing prototypes
- designing and preparing layouts of chemical plants according to the specifications given
- preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation according to the specifications given
- monitoring technical aspects of the construction, installation, operation, maintenance and repair of chemical plants to ensure satisfactory performance and compliance with specifications and regulations
- conducting chemical and physical laboratory tests to assist scientists and engineers in making qualitative and quantitative analyses of solids, liquids, and gaseous materials

This unit group includes:

- Petroleum refining technician
- Chemical engineering technician

This unit group excludes

- Assistant chemical engineer (3100)
- Chemistry technician (3111)

3117 Manufacturing Engineering Technicians

Manufacturing engineering technicians perform technical tasks to aid in manufacturing engineering research, as well as in the construction, modification, continued performance and maintenance of equipment and machines in industrial plants. They also assist in the planning of manufacturing activities under the direction of a manufacturing engineer.

Tasks include:

- carrying out operational activities according to required work specification, quality and safety standards
- reading/studying technical product documents, manufacturing specifications etc
- performing routine maintenance on processes/equipment/plant facilities
- identifying faults and troubleshoot production processes/machinery and equipment

This unit group includes:

- Manufacturing engineering technician (general)
- Medical manufacturing specialist

This unit group excludes

- Manufacturing engineer (2141)

3118 Draughtsmen

Draughtsmen prepare technical drawings, maps and illustrations from sketches, measurements and other data and copy final drawings and paintings onto printing plates.

Tasks include:

- preparing and revising working drawings from sketches and specifications prepared by engineers and designers for the manufacture, installation and erection of machinery and equipment or for the construction, modification, maintenance and repair of buildings, dams, bridges, roads and other architectural and civil engineering projects
- operating computer-aided design (CAD) or computer-aided design and drafting (CADD) equipment to create, modify and generate hard-copy and digital representations of working drawings
- operating digitising table or similar equipment to transfer hard-copy representation of working drawings, maps and other curves to digital form
- preparing and revising illustrations for reference works, brochures and technical manuals dealing with the assembly, installation, operation, maintenance and repair of machinery and other equipment and goods
- copying drawings and paintings onto stone or metal plates for printing
- preparing wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment in factories, power plants, and buildings
- creating detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information
- arranging for completed drawings to be reproduced for use as working drawings

This unit group includes:

- Draughtsperson
- Technical illustrator

This unit group excludes:

- Cartographers (2165)
- Surveyors (2165)

3119 Physical and Engineering Science Technicians Not Elsewhere Classified

This unit group covers physical and engineering science technicians not classified elsewhere in Minor Group 311 „Physical and engineering science technicians“. For instance, those who assist engineers engaged in developing procedures or conducting research on safety, biomedical, environmental or mining and metallurgical engineering should be classified here.

Tasks include:

- aiding in the identification of potential hazards and introducing safety procedures and devices
- modifying and testing equipment and devices used in the prevention, control, and remediation of environmental pollution, site remediation and land reclamation
- providing technical assistance to aid in research on and development of processes to determine the properties of metals and new alloys

- monitoring technical, regulatory and safety aspects of the construction, installation, operation, maintenance and repair of mineral ore, oil and natural gas exploration, extraction, transport and storage installations and mineral processing plants
- providing technical assistance in geological and topographical surveys, and in the design and layout of oil, natural gas and mineral ore extraction and transportation systems, and processing and refining plants for minerals and metals
- assisting scientists in the use of electrical, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential sources of metallic ore, gas or petroleum

This unit group includes:

- Mining technician
- Metallurgical technician (extractive)
- Forensic science technician

This unit group excludes:

- Production engineering technician (3117)
- Surveyors (2165)
- Aeronautics engineering technician (3115)

3141 **Life Science Technicians (Except Medical)**

Life science technicians (except medical) provide technical support to life science professionals undertaking research, analysis and testing of living organisms, and development and application of products and processes resulting from research in areas such as agriculture, natural resource management, environmental protection, plant and animal biology, microbiology and cell and molecular biology.

Tasks include:

- assisting in designing, setting up and conducting experiments
- setting up, calibrating, operating and maintaining laboratory instruments and equipment
- collecting and preparing specimens and samples, chemical solutions and slides and growing cultures for use in experiments
- performing routine field and laboratory tests
- monitoring experiments to ensure adherence to correct laboratory quality control procedures and health and safety guidelines
- making observations of tests, and analysing, calculating, recording and reporting test results using appropriate scientific methods
- preserving, classifying and cataloguing specimens and samples
- keeping detailed logs of work performed
- using computers to develop models and analyse data
- using complex and high-powered equipment to perform work
- participating in the research, development and manufacture of products and processes
- ordering and stocking laboratory supplies
- maintaining relevant databases

This unit group includes:

- Biological technician
- Biochemistry technician
- Bacteriology technician
- Food science technician
- Tissue culture technician (non-plant)

This unit group excludes:

- Medical laboratory technician (3212)
- Pathology technician (3212)
- Pharmaceutical technician (3213)
- Tissue culture technician (plant) (3142)

3142 **Agronomy, Horticultural and Farming Technicians**

Technicians in this unit group perform tests and experiments, and provide technical and scientific support to horticultural scientists, as well as agricultural scientists, farmers and farm managers.

Tasks include:

- preparing materials and equipment for experiments, tests and analyses
- collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or animal organs for experiments, tests and analyses
- assisting with and performing experiments, tests and analyses and applying methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy
- identifying pathogenic micro-organisms and insects, parasites, fungi and weeds harmful to crops and livestock and assisting in devising methods of control
- analysing produce to set and maintain standards of quality
- conducting or supervising operational programmes such as fish hatchery, greenhouse and livestock production programmes
- analysing samples of seeds for quality, purity and germination rating
- collecting data and estimating quantities and costs of materials and labour required for projects
- organising maintenance and repairs of research equipment

This unit group includes:

- Horticultural technician
- Tissue culture technician (plant)
- Farming technician (horticulture)
- Farming technician (livestock and fisheries)
- Farming technician (pets)
- Dairy technician

This unit group excludes:

- Veterinary technician (3240)
- Tissue culture technician (plant) (3141)

3151 **Ships' Engineers**

Ships' engineers control and participate in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship.

Tasks include:

- controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship
- ordering fuel and other engine-room department stores and maintaining record of operations
- performing technical supervision of the installation, maintenance and repair of ship's machinery and equipment to ensure compliance with specifications and regulations
- inspecting and conducting maintenance and emergency repairs to engines, machinery and auxiliary equipment
- standing engine room watch, monitoring and noting performance of engines, machinery and auxiliary equipment
- supervising other workers

This unit group includes:

- Ship's engineer
- Marine engineer officer

This unit group excludes:

- Marine engineer (shore-based) (2144)

3152 **Ships' Deck Officers and Pilots**

Ships' deck officers and pilots command and navigate ships and similar vessels and perform related functions on shore.

Tasks include:

- commanding and navigating ship or similar vessel at sea or on inland waterways
- controlling and participating in deck and bridge-watch activities
- navigating vessels into and out of ports and through channels, straits and other waters where special knowledge is required
- ensuring safe loading and unloading of cargo and observance of safety regulations and procedures by crew and passengers
- performing technical supervision of maintenance and repair of ship to ensure compliance with specifications and regulations
- applying knowledge of principles and practices relating to ship's operation and navigation in order to identify and solve problems arising in the course of their work
- ordering ship's stores and recruiting crew as required and maintaining record of operations
- transmitting and receiving routine and emergency information with shore stations and other ships
- supervising other workers

This unit group includes:

- Ship master
- Ship pilot
- Yacht skipper

This unit group excludes:

- Deck hand (8350)
- Helmsman (8350)

3153 Aircraft Pilots and Related Associate Professionals

Aircraft pilots and related associate professionals control the operation of mechanical, electrical and electronic equipment, in order to navigate aircraft for transporting passengers, mail and freight and perform related pre-flight and in-flight tasks.

Tasks include:

- flying and navigating aircraft in accordance with established control and operating procedures
- preparing and submitting flight plan or examining standard flight plan
- controlling the operation of mechanical, electrical and electronic equipment and ensuring that all instruments and controls work properly
- applying knowledge of principles and practices of flying in order to identify and solve problems arising in the course of their work
- examining maintenance records and conducting inspections to ensure that aircraft are mechanically sound, maintenance has been performed and that all equipment is operational
- signing necessary certificates and maintaining official records of flight
- obtaining briefings and clearances before flights and maintaining contact with air traffic or flight control during flight

This unit group includes:

- Flight engineer
- Flight navigator
- Flying instructor (except air force)
- Helicopter pilot (air transport)

3154 Air Traffic Controllers

Air traffic controllers direct aircraft movements in airspace and on the ground, using radio, radar and lighting systems and provide information relevant to the operation of aircraft.

Tasks include:

- directing and controlling aircraft approaching and leaving airport and their movement on the ground
- directing and controlling aircraft operating in designated airspace sector
- examining and approving flight plans
- informing flight crew and operations staff about weather conditions, operational facilities, flight plans and air traffic
- applying knowledge of principles and practices of air traffic control in order to identify and solve problems arising in the course of their work
- initiating and organising emergency, search and rescue services and procedures
- directing activities of all aircraft and service vehicles on or near airport runways
- maintaining radio and telephone contact with adjacent control towers, terminal control units and other control centres and coordinating the movement of aircraft into adjoining areas

This unit group includes:

- Air traffic controller

3156 Sea Traffic Controllers

Sea traffic controllers command, navigate and direct ships, using radio and radar. They provide information and directions to ensure safe and efficient movement and operation of ships.

Tasks include:

- provide comprehensive information on the movement of ships to on-shore and ships' personnel
- commanding and navigating ships
- directing the movements of ships
- supervising waterborne transport operations
- co-ordinating and monitoring of en-route operations
- intervene to alert ships at sea traffic separation zone

This unit group includes:

- Sea traffic controller

3157 Transport Operations Supervisors

Transport operations supervisors supervise land, air and waterborne transport service operations.

Tasks include:

- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- co-ordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- MRT service supervisor
- Port operations supervisor

3159 Transport Controllers and Related Workers Not Elsewhere Classified

This unit group covers transport controllers and related workers not classified elsewhere in Minor Group 315.

This unit group includes:

- Port captain
- Air cargo officer
- Ship charterer

3160 Premises and Parks Officers

Park and premises officers are generally responsible for the implementation of the park management work plan and overseeing the programmes and activities in a park.

Tasks include:

- upkeep of an estate or park and be responsible for the proper management and maintenance of trees, shrubs and premises facilities
- maintaining high level of health and safety standards in the park/estate
- liaise with the residents' committees to create events and programmes to promote the use of parks
- providing information about the parks and their activities and programmes to park users
- performing administrative tasks such as record keeping of maintenance works schedule and report
- enforcing rules and regulations in parks and premises

This unit group includes:

- Premises maintenance officer
- Facilities maintenance officer
- Interiorscaper

3171 Building and Fire Inspectors

Building and fire inspectors enforce the rules and regulations relating to fire prevention and other hazards and occupational safety.

Tasks include:

- ensuring that buildings and other structures comply with approved building plans, grading and zoning laws and fire regulations
- advising on and inspecting fire-prevention systems
- investigating fire sites to determine cause of fire
- inspecting industrial and other enterprises on the grounds of occupational safety

This unit group includes:

- Fire and safety officer
- Landscape safety officer
- Playground safety officer

3172 Quality and Safety Inspectors

Quality and safety inspectors enforce the rules and regulations relating to safety of production processes, as well as quality standards relating to goods and services produced, used or sold. They may also administer and regulate quality standards manufacturing specifications.

Tasks include:

- performing road worthiness inspection on vehicles to ensure compliance with regulatory standards
- conducting checks, maintenance and housekeeping of inspection lanes
- ensuring safety of production processes, as well as of goods produced, used or sold

- ensuring compliance with workplace occupational safety rules and regulations
- ensuring compliance with the quality standards and specifications of manufacturers

This unit group includes:

- Factory inspector (occupational safety)
- Vehicle inspector (government)
- Machinery inspector (government)

3211 **Medical Imaging and Therapeutic Equipment Technicians**

Medical imaging and therapeutic equipment technicians test and operate radiographic, ultrasound and other medical imaging equipment to produce images of body structures for the diagnosis and treatment of injury, disease and other impairments. They may administer radiation treatments to patients under the supervision of a radiologist or other health professional.

Tasks include:

- explaining procedures, observing and positioning patients to ensure safety and comfort during examination, scan, or treatment
- using radiation safety measures and protection devices to comply with and to ensure safety of patients and health care workers
- position imaging or treatment equipment and adjusting controls to set exposure time and distancing according to specification
- operating or overseeing operation of radiologic, ultrasound and magnetic imaging equipment to produce images of the body for diagnostic purposes
- reviewing and evaluating developed x-rays, video tape, or computer generated information to determine if images are satisfactory for diagnostic purposes and recording results of procedures
- monitoring video display of area being scanned and adjusting density or contrast to improve picture quality
- monitoring patients' conditions and reactions, reporting abnormal signs to medical practitioner
- calculating, measuring and recording radiation dosage or radiopharmaceuticals received, used and disposed, using computer and following prescription
- detecting and mapping radiopharmaceuticals in patients' bodies, using a camera to produce photographic or computer images
- administering radiopharmaceuticals or radiation to patients to detect or treat diseases, using radioisotope equipment
- disposing of radioactive materials and storing radiopharmaceuticals, following radiation safety procedures

This unit group includes:

- Medical diagnostic radiographer
- Mammographer
- Sonographer
- Medical x-ray technician

This unit group excludes:

- Diagnostic radiologist (2214)

3212 Medical and Pathology Laboratory Technicians

Medical and pathology laboratory technicians perform clinical tests on specimens of bodily fluids and tissues in order to obtain information about the health of a patient or cause of death.

Tasks include:

- conducting chemical analysis of body fluids, including blood, urine, and spinal fluid to determine presence of normal and abnormal components
- operating, calibrating and maintaining equipment used in quantitative and qualitative analysis, such as spectrophotometers, calorimeters, flame photometers, and computer-controlled analysers
- entering data from analysis of laboratory tests and clinical results into records-keeping systems and reporting results to medical practitioners and other health professionals
- analysing samples of biological material for chemical content or reaction
- setting up, cleaning, and maintaining laboratory equipment
- analysing laboratory findings to check the accuracy of the results
- establishing and monitoring programmes to ensure the accuracy of laboratory results and developing, standardising, evaluating, and modifying procedures, techniques and tests used in the analysis of specimens
- obtaining specimens, cultivating, isolating and identifying micro-organisms for analysis
- examining cells stained with dye to locate abnormalities
- inoculating fertilised eggs, broths, or other bacteriological media with organisms

This unit group includes:

- Blood bank technician
- Medical laboratory technician
- Haematology technician
- Pathology technician

This unit group excludes:

- Medical pathologist (2214)
- Veterinary technician (3240)

3213 Pharmaceutical Technicians

Pharmaceutical technicians perform a variety of tasks associated with dispensing medicinal products under the guidance of a pharmacist or other health professional.

Tasks include:

- preparing medications and other pharmaceutical compounds under the guidance of pharmacists
- dispensing medicines and drugs to clients and giving written and oral instructions on their use, as prescribed by medical doctors, veterinarians or other authorised workers
- receiving prescriptions or refill requests from health professionals and verifying that information is complete and accurate
- maintaining proper storage and security conditions for drugs
- filling and labelling containers with prescribed medications

- assisting clients by answering questions, locating items or referring them to a pharmacist for medication information
- pricing and filing prescriptions that have been filled and establish and maintaining patient records including lists of medications taken by individual patients
- ordering, labelling and counting stock of medications, chemicals and supplies and entering inventory data into records-keeping systems
- cleaning and preparing equipment and containers used to prepare and dispense medicines and pharmaceutical compounds.

This unit group includes:

- Pharmaceutical technician

This unit group excludes:

- Pharmacist (2262)
- Pharmacology technician (3141)

3214 **Medical and Dental Prosthetic Technicians**

Medical and dental prosthetic technicians design, fit, service and repair medical and dental devices and appliances following prescriptions or instructions established by a health professional. They may service a wide range of support instruments to correct physical medical or dental problems such as neck braces, orthopaedic splints, artificial limbs, hearing aids, arch supports, dentures and dental crowns and bridges.

Tasks include:

- examining, interviewing and measuring patients in order to determine their appliance needs and to identify factors that could affect appliance fit
- conferring with medical and dental practitioners in order to formulate specifications and prescriptions for devices and appliances
- interpreting prescriptions or specifications to determine the type of product or device to be fabricated and the materials and tools that will be required
- making or receiving casts or impressions of patients' torsos, limbs, mouths or teeth for use as fabrication patterns
- designing and making orthotic and prosthetic devices using materials such as thermoplastic and thermosetting materials, metal alloys and leather, and hand and power tools
- fitting appliances and devices onto patients, testing and evaluating them, and making adjustments for proper fit, function, and comfort
- repairing, modifying and maintaining medical and dental prosthetic and supportive devices, according to specifications
- bending, forming and shaping fabric or material so that it conforms to prescribed contours needed to fabricate structural components
- fabricating full and partial dentures and constructing mouth guards, crowns, metal clasps, inlays, bridgework and other aids
- instructing patients in the use and care of prosthetic or orthotic devices

This unit group includes:

- Dental technician
- Orthopaedic technician
- Prosthetic technician
- Denturist
- Orthotist
- Prosthetist

This unit group excludes:

- Medical pathologist (2214)
- Veterinary technician (3240)

Notes Occupations included in this category normally require some medical, dental and anatomical and engineering knowledge obtained through formal training. Technicians who construct and repair precision medical and surgical instruments are not included here.

3220 **Nursing Associate Professionals**

Nursing associate professionals provide nursing and personal care for people who are physically or mentally ill, disabled or infirm, in support of implementation of health care, treatment and referrals plans usually established by medical and other health professionals. They usually work under the direction of other health professionals and perform tasks of more limited range and complexity than medical and health professionals.

Tasks include:

- assessing, planning and providing personal and nursing care, treatment and advice to the sick, injured, disabled and others in need of care within a defined scope of practice
- administering medications and other treatments and monitoring responses to treatment
- cleaning wounds and applying surgical dressings under the guidance of medical doctors
- monitoring and observing patients' condition and maintaining a record of observations and treatment
- assisting in planning and managing the care of individual patients
- assisting in giving first-aid treatment in emergencies

This unit group includes:

- Assistant nurse
- Professional nurse

This unit group excludes:

- Nursing aide (clinic, hospital) (5320)
- Health care assistant (5320)
- Veterinary nurse (3240)

3230 **Traditional and Complementary Medicine Associate Professionals**

Traditional and complementary medicine associate professionals prevent and treat human physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures

Tasks include:

- examining and questioning patients to determine the nature of the illness or complaint and recommended course of treatment
- treating sickness and injuries using herbs, medicinal plants, insects, animal extracts and other traditional techniques to cure and heal by stimulating nature
- setting and healing fractured and dislocated bones using traditional methods of manipulation, herbal preparations and oils

- advising the individuals and the community on proper diet and behaviour to preserve or improve health and well-being
- drawing blood to the surface of the body or applying pressure to parts of the body using a variety of traditional techniques
- referring patients to, and exchanging information with other health and community workers

This unit group includes:

- Chinese herbalist
- Faith healer
- Chiroprapist
- Herbalist
- Homeopath
- Naturopath

This unit group excludes:

- Chinese physician (2230)
- Acupuncturist (2230)

3240 **Veterinary Technicians and Assistants**

Veterinary technicians and assistants carry out advisory, diagnostic, preventive and curative veterinary tasks, more limited in scope and complexity than those carried out by, and with the guidance of veterinarians. They care for animals under treatment and in temporary residence at veterinary facilities, perform routine procedures and assist veterinarians to perform procedures and operations.

Tasks include:

- advising communities and individuals on the treatment of animals and their diseases and injuries
- conducting examinations of animals to make diagnoses or refer more difficult cases to veterinarians when needed
- treating ill or injured animals, especially for common diseases and disorders
- cleaning and sterilising examination tables and instruments and preparing materials used in the examination and treatment of animals
- carrying out technical tasks connected with artificial insemination of animals
- getting animals ready for examination or treatment and restraining or holding them during treatment
- assisting veterinarians to administer anaesthetics and oxygen during treatment
- placing animals in cages for recovery from operations and monitoring their condition
- producing radiographs, collecting samples, and performing other laboratory tests to assist in diagnosis of animal health problems
- performing routine animal dental procedures and assisting veterinarians with animal dentistry

This unit group includes:

- Veterinary technician
- Veterinary assistant
- Veterinary nurse

This unit group excludes:

- Chinese physician (2230)
- Acupuncturist (2230)

3251 **Dental Nurses and Therapists**

Dental nurses and therapists provide basic dental care services for the prevention and treatment of diseases and disorders of the teeth and mouth, as per care plans and procedures established by a dentist or other oral health professional.

Tasks include:

- advising communities and individuals on dental hygiene, diet and other preventive measures to reduce potential risks to oral health
- conducting visual and physical examinations of patients' mouths, teeth and related structures to assess oral health status
- identifying cases of patients with poor oral health or oral disease requiring referral to a dentist or other health professional
- assisting dentists during complex dental procedures
- providing fluoride treatments, cleaning and removing deposits from teeth, preparing cavities and placing fillings, administering local anaesthesia and performing other types of basic or routine clinical dental procedures
- preparing, cleaning and sterilising dental instruments, equipment and materials used in the examination and treatment of patients
- getting patients ready for examination or treatment including explaining procedures and correct positioning taking impressions of the mouth and dental radiographs to support diagnosis and fitting of dental prosthetics

This unit group includes:

- Dental health therapist
- Oral health therapist
- Dental nurse

This unit group excludes:

- Dentist (2261)
- Dental prosthetics maker and repairer (3214)
- Dental technician (3214)

3252 **Dietitians and Nutritionists**

Dietitians and nutritionists assess, plan and implement programmes to enhance the impact of food and nutrition on human health.

Tasks include:

- instructing individuals, families and communities on nutrition, the planning of diets and preparation of food to maximise health benefits and reduce potential risks to health
- planning diets and menus, supervising the preparation and serving of meals and monitoring food intake and quality to provide nutritional care in settings offering food services

- compiling and assessing data relating to health and nutritional status of individuals, groups and communities based on nutritional values of food served or consumed
- planning and conducting nutrition assessments, intervention programmes, and education and training to improve nutritional levels among individuals and communities
- consulting with other health professionals and care providers to manage the dietary and nutritional needs of patients
- developing and evaluating food and nutrition products to meet nutritional requirements
- conducting research on nutrition and disseminating the findings such as at scientific conferences

This unit group includes:

- Dietitian
- Sports dietitian
- Public health nutritionist

3253 **Audiologists and Speech Therapists**

Audiologists and speech therapists diagnose, manage and treat physical disorders affecting human hearing, speech, communication and swallowing. They prescribe corrective devices or rehabilitative therapies for hearing loss, speech disorders, and related sensory and neural problems and provide counseling on hearing safety and communication performance.

Tasks include:

- Evaluating hearing and speech/language disorders to determine diagnoses and courses of treatment
- administering hearing or speech/language evaluations, tests or examinations to patients to collect information on type and degree of impairment, using specialised instruments and electronic equipment
- interpreting audiometric test results alongside other medical, social and behavioural diagnostic data
- planning, directing and participating in counselling, speech, reading and other rehabilitation programmes
- recommending hearing aids and other assistive devices according to clients' needs and instructing them in their use
- planning and conducting programmes of remedial exercise to correct disorders such as stuttering and abnormal articulation
- counselling and guiding hearing and/or language-handicapped individuals, their families, teachers and employers
- referring clients to additional medical or educational services if needed

This unit group includes:

- Audiologist
- Language therapist
- Speech therapist
- Speech pathologist

3254 Optometrists and Opticians

Optometrists and opticians provide diagnosis, management and treatment services for disorders of the eyes and visual system. They counsel on eye care and prescribe optical aids or other therapies for visual disturbance.

Tasks include:

- examining patients' eyes and setting tests to determine the nature and extent of vision problems and abnormalities
- assessing ocular health and visual function by measuring visual acuity and refractive error, and testing the function of visual pathways, visual fields, eye movements, freedom of vision and intraocular pressure, and performing other tests using special eye test equipment
- detecting, diagnosing and managing eye disease, and prescribing medications for the treatment of eye disease
- consulting with and referring patients to ophthalmologist or other health care practitioner if additional medical treatment is determined necessary
- diagnosing eye movement disorders and defects of binocular function
- prescribing lenses, contact lenses and low vision aids and checking suitability and comfort
- prescribing exercises to coordinate movement and focusing of eyes
- managing programmes for eye movement disorders, and instructing and counselling patients in the use of corrective techniques and eye exercises
- advising on visual health matters such as contact lens care, vision care for the elderly, optics, visual ergonomics and occupational and industrial eye safety

This unit group includes:

- Optician (ophthalmic)
- Dispensing optician
- Refracting optician
- Optometrist
- Orthoptist

This unit group excludes:

- Ophthalmologist (2214)

3255 Physiotherapists and Related Associate Professionals

Physiotherapists and related associate professionals assess, plan and implement rehabilitative programmes that improve or restore human motor functions, maximise movement ability, relieve pain syndromes, and treat or prevent physical challenges associated with injuries, diseases and other impairments. They apply a broad range of physical therapies and techniques such as movement, ultrasound, heating, laser and other techniques.

Tasks include:

- administering muscle, nerve, joint and functional ability tests to identify and assess physical problems of patients
- establishing treatment goals with patients and designing treatment programmes to address patients' problems
- treating patients to reduce pain, improve circulation, strengthen muscles, improve cardiothoracic, cardiovascular and respiratory functions, restore joint mobility, and improve balance and coordination

- using the therapeutic properties of exercise, heat, cold, massage, manipulation, hydrotherapy, electrotherapy, ultraviolet and infra-red light and ultrasound in the treatment of patients
- reviewing, continually monitoring, assessing and evaluating programmes and treatments
- instructing patients and their families in procedures to be continued at home
- recording information on patients' health status and responses to treatment in medical records keeping systems, and sharing information with other health professionals as required to ensure continuing and comprehensive care
- developing and implementing programmes for screening and prevention of common physical ailments and disorders

This unit group includes:

- Physical therapist
- Physiotherapist
- Sports physiotherapist
- Sports trainer
- Sports masseur
- Electrotherapist

This unit group excludes:

- Podiatrist (3259)
- Chiropractor (3259)
- Osteopath (3259)
- Occupational therapist (3256)

3256 **Occupational Therapists**

Occupational therapists help people of all ages to improve their ability to perform tasks in their daily living and working environments. They work with individuals who have conditions that are physically, developmentally, socially or emotionally disabling. They also help them to develop, recover, or maintain daily living and work skills. Occupational therapists help clients not only to improve their basic motor functions and reasoning abilities, but also to compensate for permanent loss of function.

Tasks include:

- assessing patients or clients to determine the nature of the disorder, illness or problem by questioning, examining and observing
- developing and implementing treatment plans and evaluating and documenting patients' progress through treatment plans
- assessing functional limitations of people resulting from illnesses and disabilities, and providing therapy to enable people to perform their daily activities and occupations

- assessing clients' emotional, psychological, developmental and physical capabilities using clinical observations and standardised tests
- assessing clients' functional potential in their home, leisure, work and school environments and recommending environmental adaptations to maximise their performance
- planning and directing programmes through the use of vocational, remedial, social, artistic and educational activities on an individual and group basis

This unit group includes:

- Occupational therapist
- Therapist for orientation of the blind

3257 **Environmental and Occupational Health Inspectors**

Environmental and occupational health inspectors investigate the implementation of rules and regulations relating to environmental factors that can potentially affect human health, and occupational health in the workplace. They may implement and evaluate programmes to restore or improve occupational health and sanitary conditions under the supervision of a health professional.

Tasks include:

- advising employers and workers representatives on the implementation of government and other rules and regulations concerning occupational health and the working environment
- inspecting places of work to ensure that the working environment, machinery and equipment conform to government and other rules, regulations and standards related to sanitation and/or occupational and environmental health
- giving advice on environmental sanitary problems and techniques
- advising enterprises and the general public on the implementation of government and other rules and regulations concerning hygiene, sanitation, purity and grading of primary products, food, drugs, cosmetics and similar goods
- inspecting establishments to ensure that they conform to government and other rules and regulations concerning emission of pollutants and disposal of dangerous wastes
- initiating action to maintain or improve hygiene and prevent pollution of water, air, food or soil
- promoting preventive and corrective measures such as control of disease carrying organisms and of harmful substances in the air, hygienic food handling, proper disposal of waste and cleaning of public places
- estimating quantities and costs of materials and labour required for health, safety and sanitation remediation projects

This unit group includes:

- Environmental health inspector
- Hawker inspector (government)
- Sanitary inspector
- Occupational health inspector

This unit group excludes:

- Environmental officer (environmental public health) (2263)

3259 **Health Associate Professionals Not Elsewhere Classified**

This unit group covers health associate professionals not classified elsewhere in Sub-Major Group 32 „Health associate professionals“. For instance, the group includes occupations such as chiropractor, osteopath, podiatrist and other health associate professionals.

Tasks include:

- assessing patients or clients to determine the nature of the disorder, illness or problem by questioning, examining and observing
- developing and implementing treatment plans and evaluating and documenting patients' progress through treatment plans
- providing therapy to alleviate the problem
- planning and directing programmes through the use of recreational, activities on an individual and group basis
- referring clients to or conferring with other health professionals or associate professionals if required
- attending accidents, emergencies and requests for medical assistance
- assessing health of patients, determining need for assistance, and assessing specialised needs and factors affecting patients' conditions
- performing therapies and administering drugs according to protocol
- resuscitating and defibrillating patients and operating life-support equipment
- transporting accident victims to medical facilities
- transporting sick and disabled persons to and from medical facilities for specialised treatment and rehabilitation
- instructing community groups and essential service workers in first aid
- attending public gatherings and sporting events where accidents and other health emergencies may occur
- preparing written reports on the state of patients' injuries and treatment provided

This unit group includes:

- Osteopath
- Chiropractor
- Podiatrist
- Paramedic
- Community health worker

This unit group excludes:

- Ambulance driver (8329)

3311 **Securities and Finance Dealers and Brokers**

Securities and finance dealers and brokers buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange, on spot, or on futures markets, on behalf of their own company or for customers on a commission basis. They recommend transactions to clients or senior management.

Tasks include:

- obtaining information about the financial circumstances of customers and companies in which investments may be made
- analysing market trends for securities, bonds, stocks and other financial instruments, including foreign exchange
- informing prospective customers about market conditions and prospects
- advising on and participating in the negotiation of terms for, and organisation of, loans and placement of stocks and bonds in the financial market to raise capital for customers
- recording and transmitting buy and sell orders for securities, stocks, bonds or other financial instruments and for foreign exchange for future or immediate delivery

This unit group includes:

- Securities broker
- Stocks and shares broker
- Foreign exchange dealer/broker
- Money broker
- Investment broker

This unit group excludes:

- Securities clerk (4312)

3312 **Credit and Loans Officers**

Credit and loan officers analyse and evaluate financial information on applications for credit and loans and determine approval or disapproval of the client for the credit or loan or recommend to management approval or disapproval.

Tasks include:

- Interviewing applicants for personal, mortgage, student and business loans
- Researching and evaluating loan applicant's financial status, references, credit and ability to repay the loan
- Submitting credit and loan applications to management with recommendations for approval or rejection or approve or reject applications within authorised limits ensuring that credit standards of the institution are respected
- Keeping records of payments, and preparing routine letters requesting payment for overdue accounts and forwarding these for legal action
- completing credit and loan documentation

This unit group includes:

- Credit officer
- Loans officer

3313 **Accounting Associate Professionals**

Accounting associate professionals maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.

Tasks include:

- maintaining complete records of all financial transactions of an undertaking according to general bookkeeping principles, with guidance from accountants
- verifying accuracy of documents and records relating to payments, receipts and other financial transactions
- preparing financial statements and reports for specified periods
- applying knowledge of bookkeeping principles and practices in order to identify and solve problems arising in the course of their work
- performing related tasks

This unit group includes:

- Assistant accountant
- Audit (accounting) executive
- Gaming audit officer

This unit group excludes:

- Accountant (2411)
- Bookkeeper (4311)
- Accounts clerk (4311)
- Audit assistant (4311)

3314 **Statistical, Mathematical and Actuarial Associate Professionals**

Statistical, mathematical and actuarial associate professionals assist in planning the collection, processing and presentation of statistical, mathematical or actuarial data and in carrying out these operations, usually working under the guidance of statisticians, mathematicians and actuaries.

Tasks include:

- assisting in planning and performing statistical, mathematical, actuarial, accounting and related calculations
- preparing detailed estimates of quantities and costs of materials and labour required for statistical census and survey operations
- performing technical tasks connected with establishing, maintaining and using registers and sampling frames for census and survey operations
- performing technical tasks connected with data collection and quality control operations in censuses and surveys
- using standard computer software packages to perform mathematical, actuarial statistical accounting and related calculations
- preparing statistical, mathematical, actuarial, accounting and other results for presentation in graphical or tabular form
- applying knowledge of statistical, mathematical, actuarial, accounting and related principles and practices in order to identify and solve problems arising in the course of their work
- supervising the work of statistical clerks

This unit group includes:

- Statistical officer
- Research officer (statistical)
- Actuarial officer

This unit group excludes:

- Actuary (2121)
- Mathematician (2121)
- Statistician (2122)
- Statistical clerk (4314)

3315 **Valuers and Loss Assessors**

Valuers and loss assessors value property and various goods and assess losses covered by insurance policies.

Tasks include:

- determining the quality or value of raw materials, real estate, industrial equipment, personal and household effects, works of art, gems and other objects
- assessing the extent of damage or loss and liabilities of insurance companies and underwriters for losses covered by insurance policies

- obtaining records of sales and value of similar items or property
- inspecting items or property to evaluate condition, size and construction
- preparing reports of value, outlining the estimation factors and methods used

This unit group includes:

- Appraiser
- Valuer
- Insurance assessor
- Loss assessor
- Claims adjuster
- Claims inspector

This unit group excludes:

- Auctioneer (3339)

3321 **Insurance Representatives**

Insurance representatives advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and established clients.

Tasks include:

- obtaining information about customers' circumstances necessary to determine appropriate type of insurance and conditions
- negotiating with customers to determine type and degree of risk for which insurance is required
- explaining details of insurance and conditions, risk coverage premiums and benefits to customers
- assisting clients to determine the type and level of coverage required, calculating premiums and establishing method of payment
- negotiating and placing reinsurance contracts
- advising on, negotiating terms for and placing insurance contracts for large or special types of projects, installations or risks

This unit group includes:

- Financial planner
- Insurance agent
- Insurance broker
- Insurance underwriter

This unit group excludes:

- Actuary (2121)
- Insurance assessor (3315)
- Insurance clerk (4312)
- Securities dealer (3311)

3322 **Commercial and Marketing Sales Representatives**

Commercial and marketing sales representatives represent companies to sell various goods and services to businesses and other organisations and provide specific information as required.

Tasks include:

- soliciting orders and selling goods to retail, industrial, wholesale and other establishments
- selling equipment, supplies and related services to business establishments or individuals
- obtaining and updating knowledge of market conditions and of employer's and competitors' goods and services
- providing prospective customers with information about the characteristics and functions of the products and equipment for sale, and demonstrating its use or qualities
- quoting prices and credit terms, recording orders and arranging deliveries
- reporting customers' reactions and requirements to suppliers and manufacturers
- following up clients to ensure satisfaction with products purchased

This unit group includes:

- Business development executive
- Marketing executive
- Treasury sales executive
- After-sales service advisor

This unit group excludes:

- Shop sales assistant (5220)
- Door-to-door salesperson (5242)

3323 **Buyers and Purchasing Agents**

Buyers and purchasing agents buy goods and services for use or resale on behalf of industrial, commercial, government or other establishments and organisations.

Tasks include:

- determining or negotiating contract terms and conditions, awarding supplier contracts or recommending contract awards for the purchase of equipment, raw materials products, services and the purchasing of merchandise for resale
- obtaining information about requirements and stock and developing specifications for quantity and quality to be purchased, costs, delivery dates and other contract conditions
- purchasing general and specialised equipment, materials or business services for use or for further processing by their establishment
- inviting tenders, consulting with suppliers and reviewing quotations
- purchasing merchandise for resale by retail or wholesale establishments
- studying market reports, trade periodicals and sales promotion materials and visiting trade shows, showrooms, factories and product design events
- selecting the merchandise or products that best fit the establishment's requirements
- interviewing suppliers and negotiating prices, discounts, credit terms and transportation arrangements
- overseeing distribution of merchandise to outlets and maintaining adequate stock levels
- establishing delivery schedules, monitoring progress and contacting clients and suppliers to resolve problems

This unit group includes:

- Buyer
- Merchandise purchaser
- Procurement agent
- Technical purchaser

This unit group excludes:

- Commodities broker (3324)

3324 **Trade and Ship Brokers**

Trade and ship brokers buy and sell commodities and shipping services, usually in bulk, on behalf of their own company or for customers on a commission basis.

Tasks include:

- establishing contact between buyers and sellers of commodities
- discussing buying or selling requirements of clients and giving advice accordingly
- buying and selling cargo space on ships
- negotiating purchase or sale of commodities and commodity futures
- finding cargo and/or storage space for commodities and negotiating freight, shipping and storage charges
- monitoring and analysing market trends and other factors affecting the supply and demand for commodities and shipping services

This unit group includes:

- Commodities broker
- Trade broker
- Ship broker
- Bunker trader
- Oil trader

This unit group excludes:

- Commodity futures broker (3311)
- Securities broker (3311)
- Securities dealer (3311)
- Financial futures broker (3311)
- Insurance broker (3321)

3329 **Sales and Related Associate Professionals Not Elsewhere Classified**

This unit group covers sales and related associate professionals not classified elsewhere in Minor Group 332 „Sales and related associate professionals“.

3331 **Shipping, Clearing and Forwarding Agents**

Shipping, clearing and forwarding agents carry out customs clearing procedures and ensure that insurance, export/import licenses and other formalities are in order.

Tasks include:

- carrying out customs clearing procedures for exports or imports
- ensuring that insurance is in order
- ensuring that export/import licences and other formalities are in order
- signing and issuing bills of lading

- checking import/export documentation to determine cargo contents, and classifying goods into different fee or tariff groups, using a tariff coding system

This unit group includes:

- Clearing agent
- Forwarding agent
- Shipping agent

3332 **Conference and Event Planners**

Conference and event planners organise and coordinate services for conferences, events, functions, banquets and seminars.

Tasks include:

- promoting conferences, conventions and trade shows to potential customers
- responding to inquiries concerning services provided and costs for room and equipment hire, catering and related services
- meeting with clients to discuss their needs and outlining package options to meet these needs
- arranging and coordinating services, such as conference facilities, catering, signage, displays, audiovisual and computer equipment, accommodation, transport and social events, for participants, logistical arrangements for presenters
- organising registration of participants
- negotiating the type and costs of services to be provided within budget
- overseeing work by contractors and reporting on variations to work orders

This unit group includes:

- Convention/exhibition coordinator
- Event planner

3333 **Employment Agents and Labour Contractors**

Employment agents and contractors match jobseekers with vacancies, find workers for employers and contract labour for particular projects at the request of enterprises and other organisations including government, institutions, or find places for jobseekers for a commission.

Tasks include:

- matching jobseekers with vacancies
- finding workers for vacant posts against a commission from the employer or worker
- discussing with enterprises/organisations the needed skills and other characteristics of the workers to be employed or contracted
- finding workers with appropriate skills and undertaking the necessary formalities according to national or international regulations and requirements
- ensuring that the employment contracts meet legal requirements and signing them
- advising on training schemes

This unit group includes:

- Employment agent
- Labour contractor

This unit group excludes:

- Literary agent (3339)
- Theatrical agent (3339)
- Sports agent (3339)
- Executive search consultant (2423)

3334 **Real Estate Agents**

Real estate agents arrange the sale, purchase, rental and lease of real property, usually on behalf of clients and on a commission basis.

Tasks include:

- obtaining information about properties to be sold or leased, the circumstances of their owner and the needs of prospective buyers or tenants
- showing properties to be sold or leased to prospective buyers or tenants and explaining terms of sale or conditions of rent or lease
- arranging signing of lease agreements and transfer of property rights
- collecting rent and bond monies on behalf of owner and inspecting properties before, during and after tenancies
- ensuring the availability of workers to perform maintenance of the properties

This unit group includes:

- Property agent
- Estate agent
- Realtor

This unit group excludes:

- Mortgage clerk (4312)

3339 **Business Services Agents Not Elsewhere Classified**

This unit group covers business services agents not classified elsewhere in Minor Group 333, Business services agents. For instance, here should be classified those who establish business contacts, sell business services such as advertising space in the media, arrange contracts for performances of athletes, entertainers and artists, as well as for the publication of books, the production of plays, or the recording, performing and sale of music. Also included are those selling objects, properties and goods by auction.

Tasks include:

- obtaining information about services to be sold and needs of prospective buyers
- negotiating contracts on behalf of seller or buyer and explaining terms of sale and payment to client
- signing agreements on behalf of seller or buyer and ensuring that contract is honoured
- making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time
- selling by auction various kinds of property, cars, commodities, livestock, art, jewellery and other objects

This unit group includes:

- Auctioneer
- Advertising representative/salesman
- Literary agent
- Sports agent

3345 **Public Relations Associate Professionals**

Public relations associate professionals promote the image and understanding of an organisation and its products or services to consumers, businesses, members of the public and other specified audiences.

Tasks include:

- discusses issues of business strategy, products, services and target client base with management to identify public relations requirements
- writes, edits and arranges for the effective distribution of press releases, news letters and other public relations material
- advising executives on the public relations implications of their policies, programmes and practices preparing and controlling the issue of news and press releases
- addresses individuals, clients and other target groups through meetings, presentations, the media and other events to enhance the public image of an organisation
- representing organisations and arranging interviews with publicity media

This unit group includes:

- Press liaison officer
- Public relations officer
- Corporate communications officer
- Public information officer

This unit group excludes:

- Public relations consultant (2432)

3346 **Human Resource Associate Professionals**

Human resource associate professionals plan, develop, implement and evaluate human resource policies and programmes to develop human resources to meet organisational objectives.

Tasks include:

- identifying training needs and requirements of individuals and organisations
- oversees and implement human resource functions such as recruitment, compensation and training
- setting human resource development objectives and evaluating learning outcomes
- preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models, and supporting training reference documentation
- designing, coordinating, scheduling and conducting training and development programmes that can be delivered in the form of individual and group instruction, and facilitating workshops, meetings, demonstrations and conferences

- liaising with external training providers to arrange delivery of specific training and development programmes
- monitoring and performing ongoing evaluation and assessment of internal and external training quality and effectiveness, and reviewing and modifying training objectives, methods and course deliverables

This unit group includes:

- Human resource/personnel officer
- Training officer
- Industrial relations officer
- Placement officer
- Ship crewing officer

This unit group excludes:

- Human resource consultant (2423)
- Executive search consultant (2423)

3349 **Administrative and Related Associate Professionals Not Elsewhere Classified**

This unit group covers administrative and related associate professionals not elsewhere classified in Minor Group 334 „Administrative associate professionals“. For instance, research officers (non-statistical) and various finance and banking operations executives are classified here.

This unit group includes:

- Research officer (non-statistical)
- Banking compliance executive
- Management executive (general)
- Trade finance executive

3351 **Customs and Immigration Officers**

Customs and immigration officers check persons, vehicles and goods crossing national borders to administer and enforce relevant government rules and regulations.

Tasks include:

- patrolling national borders and coastal waters to stop persons from illegally entering or leaving the country and from illegally importing or exporting currency or goods
- checking travel documents of persons crossing national borders to ensure that they have the necessary authorisations and certificates
- inspecting the luggage of persons crossing national borders to ensure that it conforms to government rules and regulations concerning import or export of goods and currencies
- examining transport documents and freight of vehicles crossing national borders to ensure conformity with government rules and regulations concerning goods in transit and the import and export of goods and to verify that necessary payments have been made
- detaining persons and seizing prohibited and undeclared goods found to be in violation of immigration and customs laws

- co-ordinating and co-operating with other agencies involved in law enforcement, deportation and prosecution
- performing related administrative tasks to record findings, transactions, violations and determinations
- when necessary, testifying in a court of law about the circumstances and results of investigations carried out

This unit group includes:

- Customs officer/inspector
- Border officer/border
- Immigration officer

3355 **Police Inspectors**

Police inspectors manage and supervise a team of police officers. Police inspectors maintain law and order, investigate crimes and handle queries from the public. They may be rotated amongst investigation, command and staff postings.

Tasks include:

- manage and supervise teams of police officers
- making arrests
- analysing evidence in order to solve crimes, identify criminal activity and gather information for court cases
- undertake planning work for police operations

This unit group includes:

- Police inspector

This unit group excludes:

- Police officer (5412)
- Police commissioner (1112)

3359 **Government Associate Professionals Not Elsewhere Classified**

This unit group covers government associate professionals not elsewhere classified in Minor Group 335 „Government associate professionals“.

Tasks include:

- examining tax returns, bills of sale and other relevant documents to determine type and amount of taxes, duties and other types of fees to be paid
- advising individuals and organisations on government laws, rules and regulations concerning government benefit programmes and the determination and disbursement of payments or referral to services, as well as on the public's rights and obligations
- examining places of business to ensure the use of correct weights and measures in trade
- monitoring price regulations to assess appropriateness of costs for goods and services to protect consumer interests
- monitoring wage regulations to ensure appropriate levels of pay for work performed and to assess compliance with employment standards legislation

- performing related investigative and administrative tasks to record findings, document compliance problems or inappropriate business practices and to prepare reports and correspondence

This unit group includes:

- Tax officer
- Excise officer
- Social benefits officer

This unit group excludes:

- Fire and safety officer (3171)
- Fire prevention specialist (3171)
- Vehicle inspector (government) (3172)
- Safety inspector (government) (3172)

3411 **Legal Associate Professionals**

Legal associate professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, the transferring of property and the granting of loans and other financial transactions or conduct investigations for clients.

Tasks include:

- documenting court proceedings and judgements
- preparing legal documents including trial briefs, pleadings, appeals, wills and contracts and preparing, papers summarising legal positions, or setting out conditions of loans or insurance
- examining documentation such as mortgages, liens, judgements, easements, contracts and maps in order to verify properties, legal descriptions and ownership
- preparing documents relating to transfer of real estate, stocks or other matters requiring formal registration

This unit group includes:

- Paralegal
- Conveyance executive

This unit group excludes:

- Lawyer (2611)
- Judge (2612)

3412 **Social Work Associate Professionals**

Social work associate professionals administer and implement social assistance programmes and community services and assist clients to deal with personal and social problems.

Tasks include:

- collecting information relevant to clients needs and assessing their relevant skills, strengths and deficits
- helping physically or mentally handicapped persons to obtain services and to improve their ability to function in society

- assisting clients to identify options and develop plans of action while providing necessary support and assistance
- assisting clients to identify and access community resources including legal, medical and financial assistance, housing, employment, transportation, assistance with moves, day care and other referral services
- participating in the selection and admission of clients to appropriate programmes
- providing crisis intervention and emergency shelter services
- implementing life skills workshops, substance abuse treatment programmes, behaviour management programmes, youth services programmes and other community and social service programmes under the supervision of social work or health care professionals
- assisting in evaluating the effectiveness of interventions and programmes by monitoring and reporting on clients' progress
- maintaining contact with other social service agencies, schools and health care providers involved with clients to provide information and obtain feedback on clients' overall situation and progress

This unit group includes:

- Youth worker
- Child care inspector
- Community development worker
- Welfare support officer
- Mental health worker

This unit group excludes:

- Family counsellor (2635)
- Marriage counsellor (2635)
- Social worker (2635)
- Parole officer (2635)
- Probation officer (2635)

3421 **Athletes and Sportsmen**

Athletes and sportsmen participate in competitive sporting events. They train, compete, either individually or as part of a team in their chosen sport.

Tasks include:

- participating in competitive sporting events
- participating in regular practice and training sessions and undertaking private training to maintain the required standard of fitness
- undertaking sports promotional activities and media interviews
- maintaining a high degree of expertise in a particular sport
- deciding on strategies in consultation with coaches
- assessing other competitors and conditions at venues
- competing in sporting events
- adhering to the rules and regulations associated with a specific sport

This unit group includes:

- Athlete
- Boxer
- Motor-racing driver
- Football player
- Golfer
- Jockey
- Sparring partner

3422 **Sports Coaches, Instructors, Officials and Other Related Associate Professionals**

Sports coaches, instructors and officials work with amateur and professional sportspersons to enhance performance, encourage greater participation in sport, and organise and officiate in sporting events according to established rules.

Tasks include:

- identifying strengths and weaknesses of athletes or teams
- planning, developing and implementing training and practice sessions
- developing, planning and co-ordinating competitive schedules and programmes
- motivating and preparing athletes or teams for competitive events or games
- formulating competitive strategy, developing game plans and directing athletes and players during games or athletic events
- analysing and evaluating athletes' or teams' performances and modifying training programmes
- monitoring and analysing technique and performance, and determining how future improvements can be made
- officiating at sporting events or athletic competitions to maintain standards of play and to ensure that game rules and safety regulations are observed
- recording lapsed time and keeping scores during events or competitions
- judging the performance of competitors, awarding points, imposing penalties for infractions and determining results
- compiling scores and other athletic records

This unit group includes:

- Sports coach
- Athletic coach
- Golf teacher
- Martial arts instructor
- Fitness instructor
- Adventure training instructor
- Scuba diving instructor
- Referee (sports)
- Judge (sports)
- Steward (race track)
- Umpire (sports)

3431 Photographers

Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects.

Tasks include:

- taking photographs for advertising, or other commercial, industrial or scientific purposes and to illustrate stories and articles in newspapers, magazines and other publications
- taking portrait photographs of persons and groups of persons
- studying requirements of a particular assignment and decide on type of camera, film, lighting and background accessories to be used determining picture composition, making technical adjustments to equipment and photograph subject
- operating scanners to transfer photographic images to computers
- operating computers to manipulate photographic images
- adapting existing photographic images to create new digitised images to be included in multimedia products
- using airbrush, computer or other techniques to create the desired visual effect

This unit group includes:

- Advertising photographer
- Commercial photographer
- Industrial photographer
- Fashion photographer
- News photographer
- Photo-journalist
- Sports photographer
- Aerial photographer

This unit group excludes:

- Video camera operator (3521)
- Television camera operator (3521)
- Director of photography (motion picture) (3521)
- Camera repairer (7311)
- Photogravure photographer (7323)
- Photolithographer (7323)

3432 Interior Designers and Decorators

Interior designers and decorators plan and design commercial, industrial, public, retail and residential building interiors and surrounding landscape to produce an environment tailored to a purpose, taking into consideration factors that enhance living and working environments and sales promotion. They coordinate and participate in their construction and decoration.

Tasks include:

- determining the objectives and constraints of the design brief by consulting with clients and stakeholders
- researching and analysing spatial, functional, efficiency, safety and aesthetic requirements
- formulating design concepts for the interiors of buildings and their surrounding landscape

- preparing sketches, diagrams, illustrations and plans to communicate design concepts
- negotiating design solutions with clients, management, suppliers and construction staff
- selecting, specifying and recommending functional and aesthetic materials, furniture and products for interiors and landscapes
- detailing and documenting selected design for construction;
- coordinating the construction and the decoration of interiors and surrounding landscapes
- designing and painting stage scenery
- designing and decorating show windows and other display areas to promote products and services

This unit group includes:

- Interior designer
- Landscape designer
- Display artist
- Exhibition designer
- Window display designer

This unit group excludes:

- Building architect (2161)
- Landscape architect (2162)

3433 **Gallery, Museum and Library Technicians**

Gallery, museum and library technicians prepare artworks, specimens and artifacts for collections, arrange and construct gallery exhibits, and assist librarians to organise and operate systems for handling recorded material and files.

Tasks include:

- mounting and preparing objects for display
- designing and arranging exhibit furnishings, display cases and display areas
- assisting in setting up lighting and display equipment
- receiving, shipping, packing and unpacking exhibits
- ordering new library materials and maintaining library records and circulation systems
- cataloguing printed and recorded material
- entering data into databases and editing computer records
- operating audiovisual and reprographic equipment
- searching and verifying bibliographic data

This unit group includes:

- Gallery technician
- Museum technician
- Library technician
- Naturalist
- Taxidermist

3435 Fashion, Garment and Product Designers

Fashion, garment and product designers design and develop products for manufacture and prepare designs and specifications of products for mass, batch and one-off production.

Tasks include:

- determining the objectives and constraints of the design brief by consulting with clients and stakeholders
- formulating design concepts for clothing, textiles, industrial, commercial and consumer products, and jewellery harmonising aesthetic considerations with technical, functional and production requirements
- preparing sketches, diagrams, illustrations, plans, samples and models to communicate design concepts
- negotiating design solutions with clients, management, and sales and manufacturing staff
- selecting, specifying and recommending functional and aesthetic materials, production methods and finishes for manufacture
- detailing and documenting the selected design for production
- preparing and commissioning prototypes and samples
- supervising the preparation of patterns, programmes and tooling, and the manufacturing process

This unit group includes:

- Clothes designer
- Fashion and garment designer
- Furniture designer
- Industrial product designer
- Package designer
- Textile designer
- Commercial product designer
- Jewellery designer

This unit group excludes:

- Engine designer (2144)
- Building architect (2161)
- Landscape architect (2162)

3436 Graphic and Multimedia Designers and Artists

Graphic and multimedia designers and artists design information content for visual and audio communication, publication and display using print, film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other visual images for use in computer games, movies, music videos, print media and advertisements.

Tasks include:

- determining the objectives and constraints of the design brief by consulting with clients and stakeholders
- undertaking research and analysing functional communication requirements
- formulating design concepts for the subject to be communicated
- preparing sketches, diagrams, illustrations and layouts to communicate design concepts

- designing complex graphics and animation to satisfy functional, aesthetic and creative requirements of the design brief
- creating two-dimensional and three-dimensional images depicting objects in motion or illustrating a process, using computer animation or modelling programmes
- negotiating design solutions with clients, management, sales and production staff
- selecting, specifying or recommending functional and aesthetic materials and media for publication, delivery or display
- detailing and documenting the selected design for production
- supervising or carrying out production in the chosen media

This unit group includes:

- Animator
- Graphic artist
- Graphic designer
- Games designer

This unit group excludes:

- Interior designer (3432)
- Multimedia developer (2512)
- Computer games developer (2512)
- Multimedia programmer (2512)

3439 **Artistic and Cultural Associate Professionals Not Elsewhere Classified**

This unit group covers artistic and cultural associate professionals not classified elsewhere in Minor Group 343 „Artistic and cultural associate professionals“. For instance, people who assist directors or actors with staging of motion picture, television or commercial productions are classified here.

This unit group includes:

- Book illustrator
- Commercial artist
- Poster artist
- Advertising illustrator
- Visualiser
- Tattooist
- Litho artist
- Lighting technician
- Stage technician

3441 **Radio and Television Presenters and Related Associate Professionals**

Radio and television presenters and related associate professionals read news bulletins, conduct interviews, and make other announcements or introductions on radio, television, and in theatres and other establishments or media.

Tasks include:

- reading news bulletins and making other announcements on radio or television
- introducing performing artists or persons being interviewed, and making related announcements on radio, television, or in theatres, night-clubs and other establishments

- interviewing persons in public, especially on radio and television
- studying background information in order to prepare for programmes or interviews
- commenting on music and other matters , such as weather or traffic conditions

This unit group includes:

- Radio announcer
- Television announcer
- Compere
- Newscaster (television)
- News anchor
- Radio presenter
- Sports announcer (television)
- Disc jockey
- Dubbing artiste

This unit group excludes:

- Journalist (2642)

3442 **Clowns, Magicians, Acrobats and Related Associate Professionals**

Clowns, magicians, acrobats and related associate professionals entertain audiences by performing amusing, spectacular or exciting acts on stage or in circuses

Tasks include:

- performing amusing antics and telling funny stories
- performing tricks of illusion and sleight of hand, and feats of hypnotism
- performing difficult and spectacular acrobatics, and gymnastic or juggling feats
- training and performing with animals

This unit group includes:

- Clown
- Aerialist
- Conjuror
- Illusionist
- Magician
- Acrobat
- Tight-rope walker
- Ventriloquist

3511 **Computer Systems Operators**

Computer systems operators support the day-to-day processing, operation and monitoring of information and communications technology systems, including local and wide area networks (LANs and WANs), and hardware, software and related computer equipment to ensure optimal performance and identify any problems.

Tasks include:

- operating and controlling peripheral and related computer equipment
- entering commands, using computer terminal, and activating controls on computer and peripheral equipment to integrate and operate equipment
- monitoring systems for equipment failure or errors in performance
- notifying supervisor or maintenance technicians of equipment malfunctions

- responding to programme error messages by finding and correcting problems, escalating the problem to other staff or terminating the programme
- reading job set-up instructions to determine equipment to be used, order of use, material such as disks and paper to be loaded, and control settings
- retrieving, separating and sorting programme output as needed, and sending data to specified users
- loading peripheral equipment, such as printers, with selected materials for operating runs, or oversee
- loading of peripheral equipment by peripheral equipment operators

This unit group includes:

- Electronic computer operator (mainframe)
- Computer operator
- Electronic data processing supervisor

This unit group excludes:

- Computer technician (3512)

3512 **Computer Technicians**

Computer technicians provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and providing guidance and support in the deployment, installation and maintenance of systems.

Tasks include:

- answering user inquiries regarding software or hardware operation to resolve problems
- entering commands and observing system functioning to verify correct operations and detect errors
- installing and performing minor repairs to hardware, software, or peripheral equipment, following design or installation specifications
- overseeing the daily performance of communications and computer system
- setting up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software
- maintaining records of daily data communication transactions, problems and remedial actions taken, or installation activities
- emulating or reproducing technical problems encountered by users
- consulting user guides, technical manuals and other documents to research and implement solutions

This unit group includes:

- Computer systems technician
- IT user helpdesk technician
- Information technology field engineer
- Computer network technician
- Computer database assistant

This unit group excludes:

- Computer system operator (3511)

3514 Website Administrators

Website administrators maintain, monitor and support the optimal functioning of internet and intranet website and web server hardware and software.

Tasks include:

- installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software
- developing and maintaining documentation, policies and instructions, recording operational procedures and system logs
- developing, coordinating, implementing and monitoring security measures
- analysing and making recommendations to enhance performance, including upgrading and acquiring new systems
- liaising with, and providing guidance to, clients and users
- modifying web pages
- performing web server backup and recovery operations

This unit group includes:

- Website administrator
- Webmaster
- Website technician

3521 Broadcasting Technicians and Audio-Visual Operators

Broadcasting and audio-visual technicians control technical functioning of equipment to record and edit images and sound and for transmitting radio and television broadcasts of images and sounds.

Tasks include:

- controlling equipment to record sound
- controlling equipment to edit and mix image and sound recordings to ensure satisfactory quality and to create special image and sound effects
- applying knowledge of principles and practices of image and sound recording and editing in order to identify and solve problems
- controlling transmitting and broadcast systems and satellite systems for radio and television programmes

This unit group includes:

- Video camera operator
- Television camera operator
- Radio and television studio equipment operator
- Sound recording equipment operator
- Sound editor (motion picture film)
- Dubbing machine operator

This unit group excludes:

- Photographer (3431)

3522 Telecommunications Engineering Technicians

Telecommunications engineering technicians perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

Tasks include:

- providing technical assistance connected with research and the development of telecommunications equipment or testing prototypes
- studying technical material such as blue prints and sketches to determine the method of work to be adopted
- preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of telecommunications equipment, according to the specifications given
- providing technical supervision of the manufacture, utilisation, maintenance and repair of telecommunications systems to ensure satisfactory performance and compliance with specifications and regulations
- applying technical knowledge of telecommunications engineering principles and practices in order to identify and solve problems arising in the course of their work

This unit group includes:

- Telecommunications technician

This unit group excludes:

- Electronics engineering technician (3114)
- Telecommunications and telephone installer (7422)
- Telecommunications and telephone mechanic (7422)
- Telecommunications and telephone lineman (7422)

3523 Telecommunications Equipment Operators

Telecommunications equipment operators control technical functioning of equipment in order to broadcast or transmit telecommunication signals on land, sea or in aircraft.

Tasks include:

- controlling radio communications systems, satellite services, and multiplex systems on land, sea or in aircraft
- applying knowledge of principles and practices of broadcasting, telecommunications terminals and transmissions systems, in order to identify and solve problems
- making emergency repairs to equipment

This unit group includes:

- Telecommunications service supervisor
- Ship's radio officer
- Flight radio officer
- Telegrapher

3529 Optical and Electronic Equipment Operators Not Elsewhere Classified

This unit group covers optical and electronic equipment operators not classified elsewhere in Minor Group 352 „Telecommunications and broadcasting technicians and audio-visual operators“.

3610 Pre-Primary Education Teachers

Pre-primary education teachers promote the social, physical, and intellectual development of children below primary school age through the provision of educational and play activities.

Tasks include:

- planning and organising individual and group activities designed to facilitate the development of children's motor skills, cooperative and social skills, confidence and understanding
- promoting language development through story-telling, role-play, songs, rhymes and informal conversations and discussions
- leading children in activities that provide opportunities for creative expression through the media of art, dramatic play, music and physical fitness
- observing children in order to evaluate progress and to detect signs of developmental, emotional or health related problems with parents
- observing and assessing nutritional health, welfare and safety needs of students and identifying factors which may impede students' progress
- supervising children's activities to ensure safety and resolve conflicts
- guiding and assisting children in the development of proper eating, dressing and toilet habits
- discussing progress or problems of children with parents and other staff members and identifying appropriate actions and referrals to other services
- establishing and maintaining collaborative relationships with other service providers working with young children

This unit group includes:

- Child care teacher
- Kindergarten teacher
- Pre-primary school teacher

3620 Extracurriculum Instructors

Extracurriculum instructors teach non-native languages for migration and related purposes; give private tuition; teach arts, information technology and other subjects outside the mainstream primary, secondary and higher education systems.

Tasks include:

- teaching non-native languages for migration or other purposes
- teaching students in practice, theory and performance of music, drama, dance, visual and other arts
- developing, scheduling and conducting training programmes and courses for information technology users.

This unit group includes:

- Language school teacher
- Flower arrangement teacher
- Calligraphy teacher
- Crafts teacher (private tuition)
- Music teacher (private tuition)
- Singing teacher (private tuition)
- Dance instructor (extracurriculum)
- Speech teacher (private tuition)
- Computer teacher (computer training school)

This unit group excludes:

- University lecturer (2310)
- Vocational school teacher (2320)
- Secondary school teacher (2330)
- Primary school teacher (2340)
- Educational psychologist (2634)
- Private tutors (3691)

3691 **Private Tutors**

Private tutors provide private tuition to schoolchildren in academic subjects, usually at the latter's homes or at tuition centres.

Tasks include:

- assessing students' level of ability and determining learning needs
- planning, preparing and delivering programmes of study, lessons and workshops for individual and groups of students
- preparing and presenting material on the theory of the subject area being studied
- instructing and demonstrating practical aspects of the subject area being studied
- assigning exercises and work relevant to students' level of ability, interests and aptitude
- assessing students and offering advice, criticism and encouragement
- revising curricula, course content, course materials and methods of instruction
- preparing students for examinations and assessments

This unit group includes:

- Private tutor (academic)

This unit group excludes:

- Language school teacher (3620)
- Flower arrangement teacher (3620)
- Calligraphy teacher (3620)
- Crafts teacher (private tuition) (3620)
- Music teacher (private tuition) (3620)
- Singing teacher (private tuition) (3620)
- Dance instructor (extracurriculum) (3620)
- Speech teacher (private tuition) (3620)

3699 Teaching Associate Professionals Not Elsewhere Classified

This unit group covers teaching associate professionals not elsewhere classified in Sub-Major Group 36 „Teaching associate professionals“. For instance, relief teachers that provide teaching cover in the absence of teachers are classified here.

Tasks include:

- Maintaining discipline and order in the classroom
- Delivering pre-prepared programmes of study, lessons and workshops

This unit group includes:

- Relief teachers

3910 Translators and Interpreters

Translators and interpreters translate or interpret from one language into another and study the origin, development and structure of languages.

Tasks include:

- studying relationships between ancient parent languages and modern language groups, tracing the origin and evolution of words, grammar and language forms, and presenting findings
- advising on or preparing language classification systems, grammars, dictionaries and similar materials
- translating from one language into another and ensuring that the correct meaning of the original is retained, that legal, technical or scientific works are correctly rendered, and that the phraseology and terminology of the spirit and style of literary works are conveyed as far as possible
- developing methods for the use of computers and other instruments to improve productivity and quality of translation
- interpreting from a spoken or a signed language into another spoken or signed language , in particular at conferences, meetings and similar occasions, and ensuring that the correct meaning and, as far as possible, the spirit of the original are transmitted
- revising and correcting translated material

This unit group includes:

- Translator
- Interpreter
- Court interpreter
- Sign language interpreter

This unit group excludes:

- Author (2641)
- Book editor (2641)
- Journalist (2642)

3991 Religious Associate Professionals

Religious associate professionals provide support to ministers of religion or to a religious community, undertake religious works, and preach and propagate the teachings of a particular religion.

Tasks include:

- undertaking religious works
- preaching and propagating the teachings of a particular religious faith
- assisting at services of public worship and religious rites
- providing religious education, spiritual guidance and moral support to individuals and communities
- administering and participating in programmes to provide food, clothing and shelter to those in need

This unit group includes:

- Layworker
- Medium
- Monk
- Nun
- Preacher (non-ordained)

3999 Other Associate Professionals Not Elsewhere Classified

This unit group covers associate professionals not elsewhere classified in Major Group 3 „Associate professionals and technicians“.

4000 Clerical Supervisors

Clerical supervisors supervise the clerical activities of a distinct unit within an establishment. The unit could be responsible for duties in connection with general administration, data collection, money-handling operations, travel arrangements, requests for information, coordination activities and appointments.

Tasks include:

- estimating manpower requirements and assigning duties to workers
- analysing and resolving work problems
- coordinating work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- Chief clerk (general office)
- Wages section supervisor
- Market research supervisor

This unit group excludes:

- Cage/Count supervisor (5230)

4110 General Office Clerks

General office clerks perform a wide range of general duties, mostly connected with the keeping of office records and routine aspects of legal matters and personnel records.

Tasks include:

- recording, preparing, sorting, classifying and filing information
- keeping address and mailing lists
- sorting, opening and sending mail
- photocopying and faxing documents
- preparing reports and correspondence of a routine nature
- recording issue of equipment to staff
- responding to telephone or electronic enquiries or forwarding to appropriate person
- checking figures, preparing invoices and recording details of financial transactions made
- transcribing information onto computers and proofreading and correcting copy
- keeping personnel or any other office records

This unit group includes:

- Office clerk (general)
- Clerical assistant
- Filing clerk
- Personnel clerk

This unit group excludes:

- Library assistant (4411)

4120 Secretaries and Verbatim Reporters

Secretaries and verbatim reporters use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents in court hearings and other official committees and meetings, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments and perform a variety of administrative support tasks.

Tasks include:

- checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards, using typewriter, personal computer or other word processing equipment
- using various computer software packages including spreadsheets to provide administrative support
- dealing with incoming or outgoing mail
- scanning, recording and distributing mail, correspondence and documents
- screening requests for meetings or appointments and helping to organise meetings
- screening and recording leave and other staff-members' entitlements
- organising and supervising filing systems
- dealing with routine correspondence on their own initiative

This unit group includes:

- Personal assistant
- Stenographic secretary
- Court reporter

This unit group excludes:

- Organising secretary (community centre) (3412)

4131 Typists and Word Processing Operators

Typists and word processing operators input and process text and data; prepare, edit and generate documents for storage, processing, publication and transmission.

Tasks include:

- typing written material from rough drafts, corrected copies, voice recordings, or shorthand using a computer, word processor or typewriter
- checking completed work for proper spelling, grammar, punctuation and formatting
- gathering and arranging the material to be typed, following instructions
- filing and storing completed documents on computer hard drive or disk, or maintain a computer filing system to store, retrieve or update documents
- transcribing information recorded in shorthand and on sound recording equipment

This unit group includes:

- Stenographer
- Typist
- Teletypist

4132 Data Entry Clerks

Data entry clerks enter coded, statistical, financial and other numerical data into electronic equipment, computerised databases, spreadsheets or other data repositories using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

Tasks include:

- receiving and registering invoices, forms, records and other documents for data capture
- entering numerical data, codes and text from source material into computer-compatible storage and processing devices
- verifying accuracy and completeness of data and correcting entered data, if needed
- operating bookkeeping and calculating machines
- importing and exporting data between different database systems and software

This unit group includes:

- Data entry operator

4211 Bank Tellers and Other Counter Clerks

Bank tellers and other counter clerks deal directly with clients of banks or post offices in connection with receiving, changing and paying out money or providing mail services.

Tasks include:

- processing customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions
- crediting and debiting clients' accounts
- paying bills and making money transfers on clients' behalf
- receiving mail, selling postage stamps and conducting other post office counter business such as bill payments, money transfers and related business
- changing money from one currency to another, as requested by clients
- making records of all transactions and reconciling them with cash balance

This unit group includes:

- Bank teller
- Post office counter clerk
- Money changer

This unit group excludes:

- Store cashier (5230)

4213 Pawnbrokers and Moneylenders

Pawnbrokers and moneylenders lend money against articles deposited as pledges, or against property or other security.

Tasks include:

- evaluating articles offered as pledges, calculating interest and lending money
- returning articles when the loan is paid or, in the event of non-payment, selling pledged articles
- lending money as personal loans against success of future harvest and other similar undertakings
- collecting loans when the pledge involved the success of future harvest and other similar undertakings
- keeping a record of items received and money distributed and received

This unit group includes:

- Pawnbroker
- Moneylender

4214 Bill Collectors and Related Workers

Bill collectors and related workers collect payments on overdue accounts and bad cheques and collect charity payments.

Tasks include:

- tracing and locating debtors
- telephoning, visiting, or writing to customers to collect money or arrange for later payments
- preparing reports including amounts collected and maintaining records and files related to collection work
- recommending legal action or discontinuation of service when payment cannot be otherwise obtained
- asking for and collecting charity payments

This unit group includes:

- Bill collector
- Rent collector
- Toll collector

This unit group excludes:

- Store cashier (5230)

4221 Travel Agency and Related Clerks

Travel agency and related clerks supply information, arrange travel itineraries, obtain travel and accommodation reservations and organise group tours.

Tasks include:

- obtaining information about the availability, cost and convenience of different types of transport and accommodation, ascertaining customer's requirements and advising them on travel arrangements
- preparing itineraries
- making and confirming reservations

- issuing tickets and vouchers
- helping customers in obtaining necessary travel documents such as visas
- preparing bills and receiving payments
- organising group tours for business or vacation travel and selling them to groups or individuals

This unit group includes:

- Booking clerk (travel agency)
- Reservations clerk (travel agency)

4223 Telephone Operators

Telephone operators operate telephone communications switchboards and consoles to establish telephone connections, receive caller inquiries and service problem reports, and record and relay messages to staff or clients.

Tasks include:

- operating switchboards and consoles to connect, hold, transfer and disconnect telephone calls
- making connections for outgoing calls
- dealing with telephone inquiries and recording messages
- forwarding messages to staff or clients
- investigating operating system problems and informing repair services

This unit group includes:

- Telephone operator (telephone exchange)
- Telephonist

4224 Receptionists and Information Clerks

Receptionists and information clerks receive and welcome visitors, clients or guests; respond to personal, written, electronic mail, and telephone enquiries and complaints about the organisation's goods, services and policies, provide information and refer people to other sources; and also assist customers in various aspects such as making reservations, arranging appointments and presenting statements of charges to departing customers and receiving payment.

Tasks include:

- receiving and welcoming visitors, guests or clients
- answering inquiries about goods, services, and policies and providing information about their availability, location, price and related issues
- dealing with telephone requests for information or appointments; and providing advice, information and assistance
- identifying requirements and entering events into a computer system
- referring complex enquiries to team leaders or expert advisers
- recording information about enquiries and complaints
- issuing relevant forms, information kits and brochures to interested parties

This unit group includes:

- Receptionist (general)
- Hotel receptionist
- Customer service clerk
- Contact centre information clerk

This unit group excludes:

- Reservations clerk (travel agency) (4221)

4229 **Client Information Clerks Not Elsewhere Classified**

This unit group includes client information workers not included elsewhere in Minor Group 422 „Client information clerks“. For instance, it includes workers who obtain and process information from clients needed to determine eligibility for services.

Tasks include:

- interviewing patients to obtain and process information required to provide hospital services
- interviewing applicants for public assistance to gather information pertinent to their application
- verifying the accuracy of information provided
- initiating procedures to grant, modify, deny or terminate assistance
- providing information and answering questions concerning benefits and claims procedures
- referring patient or applicant to other organisations if they are ineligible for services

This unit group includes:

- Hospital admissions clerk

4311 **Accounting and Bookkeeping Clerks**

Accounting and bookkeeping clerks compute, classify, and record numerical data to keep financial records complete. They perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records.

Tasks include:

- checking figures, postings, and documents for correct entry, mathematical accuracy, and proper codes
- operating computers programmed with accounting software to record, store, and analyse information
- classifying, recording, and summarising numerical and financial data to compile and keep financial records, using journals and ledgers or computers
- calculating, preparing, and issuing bills, invoices, account statements, and other financial statements according to established procedures
- compiling statistical, financial, accounting or auditing reports and tables pertaining to such matters as cash receipts, expenditures, accounts payable and receivable, and profits and losses

This unit group includes:

- Accounts clerk
- Cost clerk
- Cost computing clerk

This unit group excludes:

- Bank operations clerk (4312)
- Finance clerk (4312)

4312 Finance and Insurance Clerks

Finance and insurance clerks perform clerical tasks relating to the transactions of insurance establishments, banks and other financial establishments.

Tasks include:

- processing insurance enrolments, cancellations, claims transactions, policy changes and payments
- calculating totals, averages, percentages and other details and presenting them in the required tabular form
- preparing financial documents and calculating interest or brokerage charges and stamp duties payable
- maintaining records of bonds, shares and other securities bought or sold on behalf of clients or employer

This unit group includes:

- Bank operations clerk
- Insurance clerk
- Bonds clerk

This unit group excludes:

- Accounts clerk (4311)
- Statistical clerk (4314)

4314 Statistical Clerks

Statistical clerks obtain, code, compile and compute statistical or actuarial data. Methods to obtain information include interviewing people and recording their responses to survey and market research questions.

Tasks include:

- contacting individuals by telephone or in person and explaining the purpose of the interview
- asking questions following the outlines of questionnaires and surveys
- recording responses on paper or entering responses directly into a computer database through computer-assisted interviewing systems
- identifying and resolving inconsistencies in responses
- providing feedback to survey sponsors concerning problems in obtaining valid data
- obtaining and compiling statistical or actuarial data based on routine or special sources of information
- calculating totals, averages, percentages and other details and presenting them in the required tabular form

This unit group includes:

- Statistical coder
- Traffic clerk
- Enumerator

This unit group excludes:

- Statistical officer (3314)

4315 Computer Operations Clerks

Computer operations clerks prepare production schedules and keep records of computer operations.

Tasks included:

- preparing day-to-day production schedules for computer operations
- preparing job flows, including files required, for submission to the computer

This unit group includes:

- Data processing control clerk
- Scheduler (computer operations)

4321 Stock Clerks

Stock clerks maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.

Tasks include:

- arranging and controlling receipt and dispatch of goods and keeping relevant records
- maintaining stock records, verifying issue of goods, estimating needs and making requisitions of new stocks
- receiving, storing and issuing tools, spare parts, or various equipment and maintaining relevant records
- weighing goods received, issued, produced, or dispatched and maintaining relevant records
- compiling inventories of furniture and other items received for storage

This unit group includes:

- Stock control clerk
- Stores clerk
- Warehouse clerk

This unit group excludes:

- Traffic clerk(freight) (4323)

4322 Production Clerks

Production clerks compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes, and prepare and check production operation schedules.

Tasks include:

- computing quantities, qualities and types of materials required by production programme
- preparing production requirements schedules, ensuring that materials are available when needed and keeping relevant records
- preparing or assisting in the preparation of production operation schedules on the basis of customers' orders and production capacity and performance
- verifying stocks, arranging deliveries and investigating delays
- recording and coordinating the flow of work and materials between departments

This unit group includes:

- Planning clerk (materials supply)
- Co-ordinating clerk (production planning)

4323 **Transport Clerks**

Transport clerks keep records of operational aspects and coordinate the timing of train, road, sea and air passenger and freight transport and prepare reports for management.

Tasks include:

- keeping records of operational aspects and coordinating the timing of passenger and freight transport
- directing train routings within a division or zone of a railway system and keeping related records
- directing, controlling and keeping records of freight handling at a railway yard
- coordinating and keeping records of operational activities concerning road transport, such as allocation and scheduling of vehicles and drivers, loading and unloading of vehicles and storage of goods in transit
- coordinating and keeping records of operational activities concerning air transport of passengers and freight, such as passenger lists and freight manifests
- preparing reports for management

This unit group includes:

- Shipping clerk (freight)
- Traffic clerk(freight)

This unit group excludes:

- Stock clerk (4321)

4411 **Library Clerks**

Library clerks issue and receive library materials, sort and shelve books, sound and vision recordings, periodicals, journals, magazines and newspapers and provide general library information to library users.

Tasks include:

- issuing and receiving library books and other materials
- re-shelving books and other library materials
- performing clerical activities such as manual and electronic filing, word processing and occasional typing
- maintaining journal subscriptions
- assisting library users in accessing basic library materials and making inter-library loans
- maintaining library records relating to the acquisition, issue and return of books and other materials

This unit group includes:

- Library assistant
- Book loan clerk

4417 Legal Clerks

Legal clerks perform support functions in courts of law or in law offices, and duties mostly connected with the keeping of office and library records with aspects of legal matters.

Tasks include:

- documenting court proceedings and judgements
- serving statements of claims, summonses, warrants, subpoenas and other court orders
- preparing legal documents including trial briefs, pleadings, appeals, wills and contracts; and preparing papers summarising legal positions, or setting out conditions of loans or insurance
- preparing documents relating to transfer of real estate, stocks or other matters requiring formal registration

This unit group includes:

- Law clerk
- Legal clerk

4419 Clerical Support Workers Not Elsewhere Classified

This unit group covers clerical support workers not classified elsewhere in Major Group 4 „Clerical support workers“. For instance, the group includes proof readers, correspondence clerks, press clippers and publication clerks.

Tasks include:

- converting information into codes and classifying information by codes for data-processing purposes
- comparing proofs of texts and related materials prepared for printing with original material, correcting errors and marking texts for printer according to the established rules
- addressing circulars and envelopes by hand
- receiving customers' orders for classified advertising, writing and editing copy, calculating advertising rates and billing customers
- writing business and government correspondence such as replies to requests for information and assistance, damage claims, credit and billing enquiries and service complaints
- assisting in the preparation of periodicals, advertisements, catalogues, directories and other material for publication
- reading newspapers, magazines, press releases and other publications to locate and file articles of interest to staff and clients

This unit group includes:

- Petition writer
- Letter writer
- Printer's proof reader

5111 Travel Attendants and Stewards

Travel attendants and stewards ensure the comfort and safety of passengers, serve meals and beverages and render personal services, usually on aircraft and onboard ships. They may plan and coordinate housekeeping and social activities on ships.

Tasks include:

- greeting passengers entering aircraft or ships, checking tickets or boarding passes, and directing them to their seats or berths
- announcing, explaining and demonstrating safety and emergency procedures, such as the use of oxygen masks, seat belts and life jackets
- assembling and serving pre-prepared meals and beverages
- selling duty-free and other goods
- taking care of general needs and comfort of passengers, answering inquiries, and keeping cabins clean and tidy
- directing and assisting passengers and following prescribed procedures in the event of an emergency, such as evacuating a plane following an emergency landing
- verifying that first aid kits and other emergency equipment are in working order
- administering first aid to passengers in distress
- attending pre-flight briefings concerning weather, altitudes, routes, emergency procedures, crew coordination, lengths of flights, food and beverage services offered, and numbers of passengers
- preparing passengers and aircraft for take-off and landing
- determining special assistance needs of passengers such as small children, the elderly or disabled persons

This unit group includes:

- Chief steward (ship)
- Aircraft hostess
- Ship cabin attendant

This unit group excludes:

- Bus conductor (5112)
- Ticket inspector (5112)

5112 Transport Service Inspectors and Related Workers

Transport service inspectors check and issue tickets and ensure the safety and comfort of passengers on trains, trams, buses and other public transport vehicles. This unit group also includes workers that perform other service related tasks in the transportation industry such as broadcasting announcements and ensuring service standards.

Tasks include:

- collecting and issuing tickets, passes or fares, and checking the validity of tickets issued previously
- attending to sleeping-cars and their occupants on passenger trains
- providing assistance with boarding, seating and luggage as required, especially to elderly, sick or injured people

- opening and closing doors for passengers
- performing equipment safety checks prior to departure signalling to drivers to stop or proceed
- greeting passengers boarding transportation equipment and announcing routes and stops
- ensuring that safety regulations are respected
- responding to passengers' requests and complaints and providing information about stops and connections
- taking appropriate action in case of emergencies or accidents

This unit group includes:

- Bus conductor
- Ticket inspector

5113 **Tour and Other Guides**

Tour and other guides accompany individuals or groups on trips, sightseeing tours and excursions and on tours of places of interest such as historical sites, industrial establishments and theme parks. They describe points of interest and provide background information on interesting features.

Tasks include:

- escorting and guiding tourists on cruises and sightseeing tours
- escorting visitors through places of interest such as museums, exhibitions, theme parks, factories and other industrial establishments
- describing and providing information on points of interest and exhibits and responding to questions
- conducting educational activities for school children
- monitoring visitors' activities to ensure compliance with establishment or tour regulations and safety practices
- greeting and registering visitors and tour participants, and issuing any required identification badges or safety devices
- distributing brochures, showing audio-visual presentations, and explaining procedures and operations at tour sites
- providing for physical safety of groups, and performing activities such as providing first aid and directing emergency evacuations
- resolving any problems with tour itineraries, service or accommodation

This unit group includes:

- Tour leader
- Fishing guide
- Art gallery guide

This unit group excludes:

- Amusement ride operator (8189)

5120 Chefs and Cooks

Chefs and cooks design menus, create dishes and oversee the planning, organisation preparation and cooking of meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.

Tasks include:

- planning and developing recipes and menus, estimating food and labour costs and ordering food supplies
- monitoring quality of dishes at all stages of preparation and presentation
- discussing food preparation issues with managers, dietitians, kitchen and waiting staff
- supervising and coordinating the activities of cooks and other workers engaged in food preparation
- inspecting supplies, equipment and work areas to ensure conformance to established standards
- determining how food should be presented, and creating decorative food displays
- instructing cooks and other workers in the preparation, cooking, garnishing and presentation of food
- participating on the recruitment of kitchen staff and monitoring their performance
- preparing, seasoning and cooking of foodstuff
- regulating the temperature of ovens, grills, roasters and other cooking equipment; inspecting and cleaning the kitchen, kitchen equipment, serving areas etc to ensure safe and sanitary food handling practices
- operating large-volume cooking equipment such as grills, deep-fat fryers or griddles
- explaining and enforcing hygiene and food safety regulations

This unit group includes:

- Chef de cuisine (restaurant)
- Mess cook (ship)
- Pastry cook (restaurant)

5131 Waiters

Waiters serve food and beverages in commercial dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.

Tasks include:

- setting tables with clean linen, cutlery, crockery and glassware
- greeting customers and presenting them with menus and beverage lists
- advising on food and beverage choices
- taking orders for food and drinks and passing order to kitchen or bar staff
- serving food and beverages to clients at tables
- clearing tables and returning dishes and cutlery to kitchen
- presenting bills, accepting payment and operating point of sales machines and cash registers

This unit group includes:

- Restaurant captain
- Waiter

This unit group excludes:

- Restaurant manager (1412)

5132 **Bartenders**

Bartenders prepare, mix and serve alcoholic and non-alcoholic drinks directly to customers over a bar or counter or through waiters.

Tasks include:

- taking beverage orders from serving staff or directly from patrons
- preparing and serving alcoholic and non-alcoholic drinks at a bar
- washing used glassware, cleaning and maintaining bar service areas, tea and coffee-making areas and equipment such as espresso machines
- collecting payment for sales, operating cash registers and balancing cash receipts
- tapping kegs and attaching supply lines
- assisting in keeping bar properly stocked and arranging bottles and glasses
- checking identification of customers to verify age requirements for purchase of alcohol
- mixing ingredients to prepare cocktails and other drinks
- serving snacks or other food items to customers at the bar

This unit group includes:

- Bartender

This unit group excludes:

- Waiter (5131)

5133 **Bar/Lounge Hostesses**

Bar/Lounge hostesses accompany and entertain guests in various nightspots, night clubs, karaoke lounges and discotheques.

Tasks include:

- welcoming clients to a night-club and ensuring that they are entertained well
- accompanying and entertaining guests through various means such as drinking and singing
- serving alcoholic drinks
- providing companionship

This unit group includes:

- Bar hostess

This unit group excludes:

- Social escort (5199)

5139 Waiters and Bartenders Not Elsewhere Classified

This unit group includes all occupations under the Minor Group 513 „Waiters and bartenders“ that are not classified under the scope of unit groups 5131-5133 such as food tasting, food checking and other various catering related services.

Tasks include:

- setting up and rearranging tables and cutlery
- presentation of food, checking and ensuring quality of food in terms of hygiene and taste

This unit group includes:

- Food checker (catering service)

5141 Hairdressers, Barbers and Other Related Workers

Hairdressers cut, style, colour, straighten and permanently wave hair, shave or trim facial hair and treat scalp conditions.

Tasks include:

- cutting, washing, tinting and waving hair
- shaving or trimming beards and moustaches
- giving scalp treatment
- providing advice on hair care, beauty products and hairstyles
- styling hair into dreadlocks and braids and adding hair extensions
- arranging appointments and collecting payments
- cleaning work areas and sanitising instruments

This unit group includes:

- Hairdresser
- Barber
- Hair therapist

5142 Beauticians and Related Workers

Beauticians and related workers give facial and body beauty treatments, apply cosmetics and make-up and give other kinds of treatment to individuals in order to improve their appearance.

Tasks include:

- cleaning and applying creams, lotions and related products to face and parts of body
- applying make-up to clients of a beauty parlour or to actors and other performers
- cleaning, shaping and polishing finger and toe-nails and treating minor ailments of the human foot such as corns, calluses or deformed toe-nails
- performing manicures and pedicures including decorative nail art, application of artificial nails, nail repair and other specialised hand and foot treatment
- using waxing, sugaring and depilation techniques to remove unwanted bodily hair
- providing advice and selling cosmetics and other beauty products
- arranging appointments and collecting payments

This unit group includes:

- Beautician
- Cosmetologist
- Manicurist
- Make-up artist (stage and studio)

This unit group excludes:

- Slimming consultant (5149)

5149 **Wellness Related Workers Not Elsewhere Classified**

This unit group includes all occupations under the Minor Group 514 „Hairdressers, beauticians and related workers“ that are not classified under the scope of unit groups 5141 and 5142, such as slimming consultants.

Tasks include:

- discussing client needs, analysing characteristics and advising on treatment methods
- giving facial and body massage
- advising clients on diet and exercise to assist in weight loss and slimming
- evaluating slimming processes and products
- receiving bookings, arranging appointments and maintaining client records
- cleaning work areas and sanitising instruments

This unit group includes:

- Slimming consultant

5150 **Housekeepers and Related Workers**

Housekeepers coordinate, schedule, and supervise housekeeping staff in hotels, service apartments, residential and other related premises.

Tasks include:

- training and supervising helpers and other housekeeping staff
- purchasing or controlling the purchase of supplies
- controlling storage and issue of supplies
- supervising general welfare and conduct of individuals in institutions
- assisting in cases of minor injury or illness by performing tasks such as taking temperature, giving medicine, putting on bandages
- performing other housekeeping duties
- sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures
- taking care of household pets and plants, receiving visitors, answering telephones, delivering messages and shopping for groceries
- preparing and cooking meals, setting and clearing tables and serving food and beverages
- making beds, cleaning bathrooms, supplying towels, soap and related items
- cleaning kitchens and generally helping with kitchen work, including dishwashing
- restocking mini-bars and replenishing items such as drinking glasses and writing equipment

This unit group includes:

- Housekeeper (hotels and other establishments)
- House steward
- Butler

This unit group excludes:

- Building caretaker (9626)

5160 **Mail Carriers and Sorting Workers**

Mail carriers and sorting workers perform sorting, recording, delivery and other duties in connection with mail services from post offices or related organisations, as well as from or within an establishment.

Tasks include:

- performing mail-handling duties in public post offices or privately owned delivery establishments
- sorting and delivering mail to private houses and businesses
- providing delivery confirmation records when requested by the client
- sorting and keeping simple records of incoming and outgoing correspondence and dispatching outgoing mail in various establishments

This unit group includes:

- Courier service supervisor
- Postman
- Process server

5170 **Bookmakers, Croupiers and Related Gaming Workers**

Bookmakers, croupiers and related gaming workers determine odds and receive and pay off bets on results of sporting or other events, or conduct games of chance in gambling establishments.

Tasks include:

- determining risks to decide odds and to hedge or refuse bets
- preparing and issuing lists of approximate odds
- distributing cards, rolling dice or spinning a roulette wheel
- explaining and interpreting operating rules of a gambling establishment
- announcing winning numbers, paying winners and collecting payments from losers

This unit group includes:

- Gaming supervisor
- Croupier

This unit group excludes:

- Cage/Count supervisor (5230)

5191 **Astrologers, Fortune-tellers and Related Workers**

Astrologers, fortune-tellers and related workers recount past and predict future events in persons' lives by practising astrology, on the basis of characteristics of the clients' palms, samples of playing cards drawn or other techniques.

Tasks include:

- casting horoscopes of individuals at birth or later to recount past and forecast future events and conditions of their lives
- interpreting characteristics of clients' palms, samples of playing cards, position of tea leaves or coffee remnants in a cup, shapes and patterns of bones of dead animals etc
- forecasting future events on the basis of these interpretations
- determining auspicious times for various human activities such as inaugurations, marriages, journeys and religious and other ceremonies
- giving warnings and advice on possible courses of action
- advising individuals on precautions to be taken to avoid evil influences

This unit group includes:

- Astrologer
- Palmist

5193 **Undertakers and Embalmers**

Undertakers and embalmers perform various tasks in the disposal of dead human bodies.

Tasks include:

- making arrangements for, and conducting, funerals, cremations and burials
- embalming human bodies to retard or arrest the process of decay
- conforming to health and sanitation and ensuring that legal requirements concerning embalming are met
- incising and closing incisions on various parts of the body and reshaping or reconstructing disfigured or maimed bodies when necessary
- dressing bodies and placing them in caskets
- conducting interviews to arrange for preparation of obituary notices, to assist with the selection of caskets or urns, and to determine the location and time of burials or cremations

This unit group includes:

- Funeral director
- Embalmer

5194 **Pet Groomers, Animal Keepers and Trainers**

Pet groomers, animal keepers and trainers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians in veterinary facilities, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, riding schools, dog training schools, pet grooming and similar establishments.

Tasks include:

- bathing and feeding animals
- leading or carrying animals to treatment room and holding them during treatment
- cleaning and sterilising veterinary surgical instruments
- labelling drugs, chemicals and other pharmaceutical preparations and replenishing stock

- sterilising bottles, beakers and other equipment
- cleaning, organising, and disinfecting animal quarters such as pens, stables, cages, and yards, and animal equipment such as saddles and bridles
- collecting and recording animal information such as weight, size, physical condition, treatments received, medications given and food intake
- training animals to develop and maintain desired animal behaviours for competition, entertainment, obedience, security, riding and other activities
- grooming animals by performing tasks such as washing, brushing, clipping, and trimming coats, cutting nails and cleaning ears

This unit group includes:

- Pet groomer
- Animal keeper (zoo)
- Crocodile trainer
- Dog trainer

5195 **Driving Instructors**

Driving instructors teach people how to drive motor vehicles.

Tasks include:

- instructing students under actual driving conditions, and explaining and demonstrating the operation of brakes, clutch, gear selection, automatic transmission, signals and lights
- teaching road traffic regulations
- teaching road craft and road safety
- advising students when they are ready to undergo driving examination
- advising on and teaching advanced driving techniques required for emergency situations
- illustrating and explaining the handling and mechanical operation of motor vehicles and driving techniques using blackboard diagrams and audio-visual aids

This unit group includes:

- Driving Instructor

5199 **Personal Service Workers Not Elsewhere Classified**

This unit group covers personal service workers not classified elsewhere in Sub-Major Group 51 „Personal service workers“. For instance, social escorts are classified here.

Tasks include:

- accompanying clients to restaurants and other outings
- acting as a dancing partner

This unit group includes:

- Social escort

5211 **Hawker/Stall Holders (Excluding Prepared Food or Drinks)**

Hawkers/Stall holders (excluding prepared food or drinks) sell various goods from stalls on open-air or covered markets or from stalls in streets or other open spaces.

Tasks include:

- obtaining permission to set up a stand at a particular place in streets, markets or other open spaces
- determining product mix, stock and price levels for goods to be sold
- buying or contracting a regular supply of goods to be sold from wholesale suppliers or directly from producers
- demonstrating and selling goods and accepting payment
- stacking and displaying goods for sale, and wrapping and packing goods sold
- keeping accounts and maintaining a record of stock levels

This unit group includes:

- Hawker (excluding prepared food or drinks)
- Street vendor (excluding prepared food or drinks)

This unit group excludes:

- Hawker (prepared food or drinks) (5212)
- Newsvendor (5213)
- Sales supervisor (5220)
- Shop assistant (5220)

5212 **Hawker/Stall Holders (Prepared Food or Drinks)**

Hawker/stall holders (prepared food or drinks) prepare and sell, or sell previously prepared, hot or cold food and beverages ready for immediate consumption in streets and public places such as hawker centres and markets.

Tasks include:

- obtaining permission or a licence, where required, to sell food and drinks on the street or in a public place
- obtaining food and drinks for sale
- preparing on the spot, food and drinks for sale
- displaying and selling food and drinks and accepting payment

This unit group includes:

- Hawker (prepared food or drinks)
- Street vendor (prepared food or drinks)

This unit group excludes:

- Hawker (other than prepared food or drinks) (5211)
- Newsvendor (5213)
- Sales supervisor (5223)
- Shop assistant (5223)
- Fast food restaurant counter attendant (5249)

Notes Vendors from street and market stalls of fresh food products not intended for immediate consumption are classified in Unit Group 5211 „Hawker/Stall holders (excluding prepared food or drinks)“. Vendors in streets and public places that prepare food and beverages for immediate consumption are classified in Unit Group 5212 „Hawker/Stall holders (prepared food or drinks)“. Workers who prepare simple food items for immediate consumption, such as hamburger cooks, but have limited direct contact with clients, are classified partly in Unit Group 9410 „Food preparation and kitchen assistants“.

5213 Newsvendors

Newsvendors sell newspapers and magazines in streets and public places such as stations, shopping centres or theatres.

Tasks include:

- displaying newspapers, magazines and related items for sale
- receiving payment

This unit group includes:

- Newsvendor

5219 Other Stall Sales Workers

This unit group includes stall sales workers not classified elsewhere in Minor Group 521 „Stall sales workers“. They help to prepare and sell, or sell previously prepared, hot or cold food and beverages ready for immediate consumption in streets and public places such as hawker centres and markets. It includes workers helping out in stalls that sell various goods such as accessories, textile products, wood carvings, embroidery, lace and various other goods.

Tasks include:

- Setting up a stall at a particular place in streets, markets or other open spaces with permission granted by authorities
- demonstrating and selling goods and accepting payment
- stacking and displaying goods for sale, and wrapping and packing goods sold
- keeping accounts and maintaining a record of stock levels

This unit group excludes:

- Hawker (prepared food or drinks) (5212)
- Newsvendor (5213)
- Sales supervisor (5223)
- Shop assistant (5223)

5220 Shop and Store Salespersons

Shop and store salespersons sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain functions and qualities of these goods and services. Shop supervisors also supervise the activities of shop sales assistants and cashiers.

Tasks include:

- ensuring that safety procedures are enforced
- determining customers' requirements and advising on product range, price, delivery, warranties and product use and care
- demonstrating and explaining to customers the establishment's goods and services
- selling goods and services, accepting payment by a variety of payment methods, preparing sales invoices and recording sales using cash registers
- assisting with the ongoing management of stock such as product inventories and participating in stock takes
- stacking and displaying goods for sale, and wrapping and packing goods sold

This unit group includes:

- Sales supervisor
- Showroom supervisor (retail trade)
- Shop assistant
- Florist

This unit group excludes:

- Retail sales and shop sales manager (1420)

5230 **Cashiers and Ticket Clerks**

Cashiers and ticket clerks operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices.

Tasks include:

- receiving and verifying payment by cash, cheque, credit card or automatic debit in stores, ticket offices or similar establishments
- giving change and issuing receipts
- issuing tickets for attendance at sporting and cultural events
- counting and recording money received or paid out and balancing against cash register sales records
- receiving incoming cash, checking it against sales slips and other documents, and preparing it for deposit at bank
- operating cash register to calculate total to be paid from or to clients
- scanning, weighing and recording prices of goods
- wrapping and placing merchandise in bags

This unit group includes:

- Cashier (general)
- Restaurant cashier

This unit group excludes:

- Shop assistant (5220)

5241 **Fashion and Other Models**

Fashion and other models wear and display clothing and accessories and pose for photographs, film and video, advertising, still photography or for artistic creation.

Tasks include:

- dressing in sample apparel of new or current styles or of type wanted by customer
- walking, turning and posing to demonstrate style and characteristics of garments, fashion accessories and other merchandises to best advantage
- posing as subject for sculpture, painting and other types of visual art
- posing for still photography for magazines and other advertising media
- posing for television, video and cinema commercials and other productions

This unit group includes:

- Fashion model
- Artist's model

5242 Sales Demonstrators and Door-to-Door Salespersons

Sales demonstrators and door-to-door salespersons sell goods and services and solicit business for an establishment by approaching or visiting potential customers, either in commercial premises and exhibitions or by going from door to door. They also demonstrate goods at commercial premises, exhibitions and private homes.

Tasks include:

- setting up displays and demonstrating articles for sale to inform customers about their characteristics and mode of use, as well as to stimulate buying interest
- answering questions and offering advice on the use of goods
- selling goods or directing customers to sales staff
- taking orders and making arrangements for payment, delivery and collection of goods
- offering sample goods and distributing catalogues and advertising material
- giving details of various goods or services and of terms of sale by visiting clients and potential clients door to door
- preparing invoices and sales contracts and accepting payment
- compiling lists of prospective clients and calling on them to obtain new businesses
- travelling between sales areas and clients and transporting samples or goods for sale

This unit group includes:

- Demonstrator
- Sales promoter
- Outdoor salesman

This unit group excludes:

- Street vendor (other than prepared food or drinks) (5211)
- Hawker (prepared food or drinks) (5212)

5244 Contact Centre Salespersons

Contact centre salespersons contact existing and prospective customers, using the telephone or other electronic communications media to promote goods and services, obtain sales and arrange sales visits. They may work from a customer contact centre or from non-centralised premises.

Tasks include:

- promoting goods and services by telephone or electronic mail, following scripts and working from lists of contacts
- creating interest in goods and services, and seeking a sale or agreement to see sales representatives
- arranging processing and despatch of goods and services, information kits and brochures to customers
- arranging appointments for sales representatives
- recording notes for follow-up action and updating marketing databases to reflect changes to the status of each customer
- reporting issues raised by contacts for attention by managers
- maintaining statistics of calls made and successes achieved
- submitting periodic reports on telemarketing activities and results

This unit group includes:

- Telemarketer

5249 **Sales Workers Not Elsewhere Classified**

This unit group includes sales workers not classified elsewhere in Sub-Major Group 52 „Sales workers“. It includes service station attendants that provide re-fuelling services and sales of other automotive products, and food service counter attendants that serve customers at food counters.

Tasks include:

- filling fuel tanks and containers to level specified by customer
- checking and replenishing air pressure in vehicle tyres and oil and other vehicle fluid levels
- washing vehicle windscreens and windows
- performing minor repair work to vehicles such as replacing tyres, light bulbs and windscreen wiper blades
- maintaining and operating automatic car wash facilities
- cleaning petrol pumps and surrounding driveway, shop and facilities
- serving food to customers at counters
- ascertaining the products desired by the customer, assisting customer in making a choice and taking orders
- cleaning, peeling, slicing and trimming foodstuffs using manual and electric appliances
- preparing simple food items and re-heating prepared meals
- portioning and wrapping food or placing it directly on plates for service to patrons
- packaging take-away food
- collecting payments from customers for purchases
- undertaking stock control and preparing records on items sold or used

This unit group includes:

- Petrol service station attendant
- Fast food restaurant counter attendant

This unit group excludes:

- Hawker (prepared food or drinks) (5212)
- Fast food preparer (9410)

5311 **Child Care and Related Workers**

Child care workers provide care and supervision for children and youths in residential homes and in before-school, after-school, vacation and day care centres.

Tasks include:

- assisting children to wash, dress and feed themselves
- taking children to and from school or outdoors for recreation
- playing games with children, or entertaining them by reading or storytelling
- assisting in the preparation of materials and equipment for children's education and recreational activities
- managing children's and youth's behaviours and guiding their social development
- disciplining children and recommending or initiating other measures to control behaviour, such as caring for own clothing and picking up toys and books

- observing and monitoring children's play activities
- keeping records on individual children or youth, including daily observations and information about activities, meals served, and medications administered

This unit group includes:

- Babysitter
- Confinement nanny
- Child care worker
- After-school care centre worker

This unit group excludes:

- Pre-primary education teacher (3610)

5312 **Teachers' Aides**

Teachers' aides perform non-teaching duties to assist teaching staff, and provide care and supervision for children in schools and pre-schools.

Tasks include:

- demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and preschools
- preparing indoor and outdoor areas for learning and recreational activities
- assisting children with intellectual, physical, behavioural and other learning difficulties with their studies
- assisting children individually to learn social skills
- assisting with preparing teaching materials, and copying and collating written and printed material
- operating audio-visual equipment, computers and other teaching aides
- distributing and collecting lesson material

This unit group includes:

- Teachers' aide

5320 Healthcare Assistants and Other Personal Care Workers

Healthcare assistants and other personal care workers provide direct personal care and assistance with activities of daily living to patients and elderly, convalescent and disabled people in healthcare and residential settings such as hospitals, clinics, residential nursing care facilities, private homes and old folks' homes.

Tasks include:

- providing care, support and treatment to patients and residents of medical, rehabilitative and residential care facilities as per treatment plans established by medical, nursing and other health professionals
- assisting patients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking oral medications and changing dressings
- positioning, lifting and turning patients and transporting them in wheelchairs or on movable beds
- maintaining patients' environmental hygiene standards, such as cleaning patient rooms and changing bed-linen
- providing massage and other non-pharmacological pain relief measures, such as during pregnancy and labour
- observing patients' condition, responses and behaviour and reporting changes to a health professional
- providing clients and families with emotional support and information and advice on topics such as nutrition, hygiene, exercise, caring for infants, or adapting to disability or illness
- providing psychological support to clients such as through conversation or reading aloud
- planning, purchasing, preparing or serving meals to meet nutritional requirements and prescribed diets
- providing support to parents and care for newborns during the postpartum period
- scheduling and accompanying clients for appointments with medical doctors and other health professionals or performing other errands

This unit group includes:

- Healthcare assistant
- Nursing aide (clinic, hospital)
- Home health aide
- Nursing aide (home)

This unit group excludes:

- Enrolled/assistant nurse (3220)
- Social worker (2635)

Notes

This unit group includes workers who provide personal care to residents of institutions and facilities that have permanent medical or nursing supervision (such as hospitals, rehabilitation centres, residential nursing care facilities and nursing homes) as well as those who provide personal care to residents of independent living units, generally without permanent medical or nursing supervision.

5411 Fire-Fighting and Rescue Officers

Fire-fighters and rescue officers prevent, fight and extinguish fires and assist in other emergencies, protect life and property and conduct rescue efforts.

Tasks include:

- responding to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies
- controlling and extinguishing fires using manual and power equipment and fire-fighting chemicals
- fighting special types of fires and using special equipment in industrial establishments
- rescuing people from burning buildings and accident sites and those trapped in dangerous situations
- preventing or limiting the spread of dangerous substances in case of fires or accidents
- informing the public about fire prevention

This unit group includes:

- Fire-fighter (general)
- Aircraft accident fire fighter
- Fire salvage specialist
- Fire investigator

5412 Police Officers

Police officers maintain law and order, patrol public areas, enforce laws and regulations and arrest suspected offenders.

Tasks include:

- patrolling a specific area to maintain public order, respond to emergencies, protect people and property and enforce laws and regulations
- identifying, pursuing and arresting suspects and perpetrators of criminal acts
- directing traffic and assuming authority in the event of accidents
- providing emergency assistance to victims of accidents, crimes and natural disasters

This unit group includes:

- Police constable
- Marine policeman
- Narcotics officer

This unit group excludes:

- Prison warden (5413)
- Police inspector (3355)

5413 Prison Officers

Prison officers watch over and maintain order among inmates of prisons, reformatories or penitentiaries.

Tasks include:

- searching arriving prisoners, putting their valuables in safekeeping, escorting prisoners to cells and locking them in

- making periodic inspection tours of cells and inspecting and maintaining the security of locks, windows, doors and gates
- supervising prisoners at work, meals or during recreation periods
- observing the conduct and behaviour of prisoners to prevent disturbances and escapes
- patrolling prison areas to prevent escape
- assisting with the implementation of rehabilitation programmes
- escorting prisoners in transit and during temporary leaves

This unit group includes:

- Gaoler
- Prison warden

5414 **Security Guards**

Security guards patrol or monitor premises to guard property against theft and vandalism. They control access to establishments and maintain order and enforce regulations at public events and within establishments.

Tasks include:

- patrolling premises and checking doors, windows and gates to prevent and detect signs of unauthorised entry
- controlling access to establishments, monitoring and authorising the entrance or departure of employees and visitors, checking identification and issuing security passes
- circulating among visitors, patrons or employees to preserve order, protect property from theft or vandalism and enforce the regulations of the establishment
- responding to alarms, investigating disturbances and contacting superiors, police or fire-fighters as appropriate
- performing security checks of passengers and luggage at airports
- picking up and ensuring the safe delivery of cash and valuables to banks, automated teller machines and retail establishments

This unit group includes:

- Security guard (private)
- Patrolman (private establishment)

This unit group excludes:

- Watchman (9626)

5415 **Lifeguards**

Lifeguards look after the safety of people at beaches or swimming pools through accident prevention and rescue and educating the public on water safety. This occupation requires high levels of physical fitness, sporting ability and personal commitment as well as, or in place of, formal qualifications or experience.

Tasks include:

- patrolling beaches and swimming pools to prevent accidents and to rescue bathers from drowning

This unit group includes:

- Beach guard
- Lifeguard

5419 **Protective Services and Related Workers Not Elsewhere Classified**

This unit group covers protective services workers not classified elsewhere in Minor Group 541 „Protective services workers“. For instance, the group includes private investigators, industrial investigators, gaming investigators, bouncers and park rangers.

Tasks include:

- conducting private investigations for commercial or other establishments and individuals
- control access to discotheques and related recreational establishments
- maintaining order at venues where there are such gatherings of people
- responding to citizen complaints concerning stray domestic animals, livestock and wildlife, issuing warnings and citations to owners and impounding lost, homeless and dangerous animals
- patrolling natural reserves and parks to prevent theft, vandalism and fires

This unit group includes:

- Private investigator
- Industrial investigator
- Park ranger

5900 **Service Workers Not Elsewhere Classified**

This unit group covers workers performing tasks outside the scope of those classified in unit groups 5111-5419, including operators of audio equipment, cinema projectionists, billposters and divers doing salvaging work.

Tasks include:

- operating sound amplifying equipment such as loudspeakers and microphones
- operating projectors in cinemas
- pasting advertising posters
- diving under water to carry out salvaging work

This unit group includes:

- Cinema projectionist
- Billposter
- Frogman (salvage)
- Microphone operator

6111 Vegetable Farm Workers

Vegetable farm workers perform farming operations to grow and harvest various types of field crops such as rice and other cereals, beetroot, sugar-cane, ground-nuts, tobacco, reed or other field crops and potatoes, cabbages or other field vegetables, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets. The unit group does not include working proprietors and managers in agriculture.

Tasks include:

- preparing soil by hand or machine, and spreading fertilisers and manure
- selecting and sowing seeds and planting seedlings
- maintaining crops by cultivating soil, by transplanting, pruning or thinning plants and by setting up and operating irrigation equipment
- controlling weeds, pests and diseases by applying herbicides and pesticides
- harvesting crops and destroying diseased or superfluous crops
- inspecting, cleaning, grading, packaging, storing and loading crops for sale or delivery to market
- maintaining farm buildings, structures, equipment and water supply systems
- storing and carrying out some processing of produce
- promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions

This unit group includes:

- Hydroponics farm worker
- Mushroom farm worker
- Vegetable farmer

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

6113 Gardeners, Horticultural and Nursery Farm Workers

Gardeners, horticultural and nursery farm workers perform operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, and to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

- preparing land by conditioning soil, levelling ground and installing and operating irrigation and drainage systems planting trees, hedges, garden plants and grass
- pruning and trimming trees, shrubs and hedges, installing plant supports and protection, and rolling, mowing aerating and edging lawns
- constructing features and facilities within gardens, such as paths or paved areas, walls, rockeries, garden beds, ponds and water features, sheds and fences

- checking the health of plants and trees, identifying and treating weeds, pests and diseases, and applying mulch and fertilisers
- producing saplings, bulbs and seeds and raising plants from seeds or cuttings
- harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market
- maintaining buildings, greenhouses and other structures, equipment and water supply systems
- storing and carrying out some processing of produce
- promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of activities and transactions

This unit group includes:

- Flower and orchid farm worker
- Nursery worker

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

6121 **Livestock and Dairy Farm Workers**

Livestock and dairy farm workers perform farming operations to breed and raise domesticated animals (excluding poultry), such as cattle, sheep, pigs, goats, horses and camels, for the production of meat, milk and other dairy products, skins, and wool or for use as working, sporting or recreational animals for sale or delivery to wholesale buyers, marketing organisations or at markets.

Tasks include:

- cultivating pastures and providing and monitoring fodder and water supplies to maintain appropriate nutritional levels and condition of livestock
- monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain
- grooming, marking, clipping, trimming, drenching and/or castrating animals and shearing coats to collect hair or wool
- herding livestock to pastures for grazing or to scales, sheds, vehicles, or other enclosures
- milking animals by hand or using milking machines
- mixing feed, additives, and medicines in prescribed portions and distributing or hand-feeding to animals for consumption
- performing duties related to livestock reproduction, such as breeding, artificial insemination and helping with animal births
- maintaining and cleaning farm buildings, machinery, equipment, and structures slaughtering and skinning animals and preparing them for market
- storing and carrying out some processing of animal and dairy produce
- promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions

This unit group includes:

- Dairy farm worker
- Livestock farm worker

This unit group excludes:

Production manager in agriculture and fisheries (1310)

6122 Poultry Farm Workers

Poultry farm workers perform farming operations to breed and raise chickens, turkeys, geese, ducks and other poultry to produce meat, eggs and breeding stock for sale or delivery to wholesale buyers, marketing organisations or at markets.

Tasks include:

- growing and purchasing feed and other supplies needed to maintain appropriate nutritional levels and condition of poultry
- monitoring and examining poultry to detect illness, injury or disease, and to check physical condition, such as rate of weight gain, and removing weak, ill and dead poultry from flock
- mixing feed and feed additives and filling feed and water containers
- vaccinating poultry via drinking water, injection or dusting of air
- collecting and storing eggs and packaging them for sale delivery to market
- determining sex of chicks and facilitating breeding, artificial insemination and hatching of eggs
- renting or investing in and maintaining and cleaning farm buildings, machinery, equipment, and structures
- slaughtering and dressing poultry for sale or delivery to market
- storing and carrying out some processing of produce
- arranging the sale, purchase and transportation stock, produce and supplies

This unit group includes:

- Poultry farm worker
- Poultry hatchery worker
- Poultry inseminator

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

6190 Agricultural Workers Not Elsewhere Classified

This unit group covers agricultural workers not classified elsewhere in Sub-Major Group 61 „Agricultural workers“. For instance, the group includes tree and shrub crop growers as well as mixed crop workers that plan, organise and perform farming operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, and garden, horticultural and nursery products; for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets. In addition, the unit group also includes forestry workers who carry out the necessary operations to cultivate and conserve forests.

Tasks include:

- preparing soil by hand or machine, and spreading fertilisers and manure
- selecting and sowing seeds, and planting seedlings
- maintaining crops by cultivating soil, by transplanting, pruning or thinning trees and shrubs, and by setting up and operating irrigation equipment
- controlling weeds, pests and diseases, by applying herbicides and pesticides
- tending trees or bushes, collecting sap and harvesting crops; producing saplings, bulbs and seeds
- growing flowers and vegetables by intensive cultivation
- harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market
- maintaining farm buildings, structures, equipment and water supply systems
- storing and carrying out some processing of produce
- promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions

This unit group includes:

- Rubber farmer
- Mixed farm worker

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

6221 **Aquaculture Workers**

Aquaculture workers breed and raise fish and cultivate mussels, oysters and other forms of aquatic life including crocodiles, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

- breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater
- collecting and recording growth, production and environmental data
- conducting and supervising stock examinations in order to identify diseases or parasites
- monitoring environments to ensure maintenance of optimum conditions for aquatic life
- directing and monitoring trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques
- cleaning, freezing, icing or salting catch on or offshore and preparing fish and other products for shipment
- maintaining buildings, tanks, machinery, boats and other equipment
- delivering or marketing products
- renting or investing in buildings, equipment and machinery and purchasing food and other supplies
- supervising and training aquaculture and fish hatchery support workers

This unit group includes:

- Fish farmer
- Aquarium fish farmer
- Crocodile farmer
- Oyster farm worker

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

6222 Coastal Waters and Deep Sea Fishery Workers

Coastal waters and deep sea fishery workers, alone, or either as skippers or members of fishing crews, catch fish or gather other forms of aquatic life in deep sea, inland or coastal waters for sale or delivery to wholesale buyers, marketing organisations or at markets.

Tasks include:

- preparing and repairing nets and other fishing gear and equipment
- selecting area for fishing, plotting courses and computing navigational positions using compass, charts and other aids
- commanding and operating fishing vessels to, from and at fishing grounds
- steering vessels and operating navigational instruments and electronic fishing aids
- baiting, setting, operating and hauling in fishing gear by hand or using hoisting equipment
- gathering various forms of aquatic life from shores and shallow waters
- maintaining engine fishing gear and other on-board equipment
- keeping records of transactions, fishing activities, weather and sea conditions on ship's log and estimating costs and budgets
- cleaning, freezing, icing or salting catch on or offshore, followed by sorting, and storing catch in holds with salt and ice
- removing catches from fishing equipment, measuring them to ensure compliance with legal size and returning undesirable or illegal catches to the water
- direct fishing operations and supervising fishing crew members
- selecting and training vessel crews

This unit group includes:

- Coastal waters fisherman
- Whaler crewman
- Kelong fisherman

This unit group excludes:

- Production manager in agriculture and fisheries (1310)

7100 Supervisors and General Foremen (Building and Related Trades)

Supervisors and general foremen in building and related trades supervise activities of a distinct unit at a construction site, control and coordinate the activities of workers who are engaged in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- Chargehand (construction)
- Civil engineering construction general foreman
- Supervisor and general foreman (architectural)

7112 Bricklayers and Related Workers

Bricklayers and related workers lay bricks, pre-cut stones and other types of building stones in mortar to construct and repair walls, partitions, arches and other structures.

Tasks include:

- laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments
- laying footpaths, kerbs and pavements
- laying bricks or other masonry to build patios, garden walls and other decorative installations

This unit group includes:

- Kerbs installer
- Kiln bricklayer
- Paviour installer

This unit group excludes:

- Stonemason (7113)

7113 Stone Cutters, Splitters, Carvers and Stonemasons

Stone cutters, splitters, carvers and stonemasons cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry and carve designs and figures in stones.

Tasks include:

- driving wedges into quarried stone to break it into slabs or blocks
- selecting and grading slabs of blocks of granite, marble and other stone
- cutting, shaping and finishing building and monumental stone such as granite or marble by using hand or hand-powered tools
- making patterns and marking shapes on stone for subsequent sawing, planing, drilling and other dressing and cutting operations
- cutting and carving characters, figures or designs on stone blocks used for monuments or memorials
- setting stone in the erection of monuments or memorials
- repairing and replacing stonework on old buildings, churches and monuments

This unit group includes:

- Marble polisher
- Monument carver-setter
- Stone grinder

This unit group excludes:

- Mosaic cutter and setter (7122)

7114 Concrete Placers, Concrete Finishers and Related Workers

Concrete placers, concrete finishers and related workers erect reinforced concrete frameworks and structures, make forms for moulding concrete, reinforce concrete surfaces, cement openings in walls or casing for wells, finish and repair cement surfaces and carry out terrazzo work.

Tasks include:

- constructing and repairing reinforced concrete floors, walls, tanks, silos and other concrete structures
- making shuttering or assembling pre-fabricated forms for moulding concrete
- cementing openings in walls or casings for wells
- finishing and smoothing surfaces of concrete structures
- applying a durable, smooth surfacing composed of cement, sand pigment and marble particles to floors, known as a terrazzo finish

This unit group includes:

- Concrete shutterer
- Precast concrete erectors
- Screeder

This unit group excludes:

- Concrete finishing machine operator (8342)
- Road surface laying machinery operator (8342)

7115 Carpenters and Joiners

Carpenters and joiners cut, shape, assemble, erect, maintain and repair various types of structures and fittings made from wood and other materials.

Tasks include:

- making, altering and repairing structural and other woodwork at a work-bench and on a construction site
- constructing, erecting and installing heavy-framed wooden structures on building sites
- fitting, assembling and altering internal and external fixtures of buildings, such as walls, doors, door and window frames, facings and panelling
- making, repairing and fitting scenic equipment for theatrical performances, motion picture or television productions
- constructing, assembling, altering and repairing wooden fixtures and fittings in train coaches, aircraft, ships, boats, floats and other vehicles

This unit group includes:

- Aircraft joiner
- Ship joiner
- Wood shipwright

This unit group excludes:

- Cabinet maker (7522)
- Vehicle frame builder (7231)

7119 Building Frame and Related Trades Workers Not Elsewhere Classified

This unit group covers building frame and related trades workers not elsewhere classified in Minor Group 711 „Building frame and related trades workers“. For example, the group includes steeplejacks, scaffolders and demolition workers.

Tasks include:

- climbing and performing miscellaneous construction and building maintenance work on structures such as towers, chimneys and spires
- erecting temporary metal or wooden scaffolding on building sites
- demolishing buildings and other structures

This unit group includes:

- Building wrecker
- Curtain wall erector
- Scaffolding rigger

This unit group excludes:

- Sandblaster (building exteriors) (7133)

7121 Roofers

Roofers build and repair roofs on all types of buildings using one or more kinds of materials.

Tasks include:

- studying drawings, specifications and construction sites to determine materials required
- covering roof frameworks with slate and pre-fabricated tiles to cover pitched roofs
- laying a waterproof shield and fixing metallic or synthetic materials to a building's frame
- sizing and cutting roofing materials to fit around edges corners and protuberances such as chimney
- using natural materials such as thatching to provide roof coverings
- creating temporary structures such as scaffolding and ladders

This unit group includes:

- Metal roofer
- Slate and tile roofer
- Thatcher

7122 Floor Layers and Tile Setters

Floor layers and tile setters install, maintain and repair flooring, and cover floors, walls and other surfaces with tiles or mosaic panels for decorative or other purposes.

Tasks include:

- preparing floor areas for covering with a variety of materials
- assembling carpet, tiles or other materials and laying them on floors according to design and other specifications
- preparing wall areas for covering with tiles or other materials for decorative or other purposes such as acoustic insulation
- setting tiles and construction and laying mosaic panels to walls, floors and other surfaces

This unit group includes:

- Floor layer (composition tiles)
- Mosaic cutter and setter
- Timber flooring worker

7123 Plasterers

Plasterers install, maintain and repair plasterboard in buildings, and apply decorative and protective coverings of plaster, cement and similar material to the interiors and exteriors of structures.

Tasks include:

- applying one or more coats of plaster to interior walls and ceilings of buildings to produce finished surface
- measuring, marking and installing ornamental plastic panels, and casting and trimming ornamental plastic cornices
- applying protective and decorative covering of cement, plastic and similar materials to exterior building surfaces
- making and installing decorative plastic fixtures of fibrous plaster

This unit group includes:

- Dry wall installer
- Ornamental plasterer
- Partition installer (plaster)

7124 Insulation Workers

Insulation workers apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment.

Tasks include:

- cutting insulation material by shape and size
- applying slabs and sheets of insulating or sound-absorbing materials to walls, floors and ceilings of buildings
- blow and pack insulating or sound-absorbing materials into cavities between walls, floors and ceilings of buildings with power-driven machines
- examining plans, specifications and work sites to determine the type, quality and quantity of insulation material required
- applying insulation materials to exposed surfaces of equipment such as boilers, pipes and tanks
- insulating refrigeration and air-conditioning equipment

This unit group includes:

- Boiler and pipe insulator
- Refrigeration and air-conditioning equipment insulator
- Suspended ceiling installer

7125 Glaziers

Glaziers measure, cut, finish, fit and install flat glass and mirrors.

Tasks include:

- selecting the type of glass to be used, cutting to right size and shape and installing in windows, doors, showers and partitions of buildings
- installing glass and mirrors in skylights, display cases, interior walls and ceilings
- installing or replacing windscreens in vehicles or boats
- creating decorative glass features such as glass walls, staircases, balustrades and stained-glass windows

This unit group includes:

- Plate glass fitter
- Structural glazier
- Vehicle glazier

This unit group excludes:

- Glass cutter (7315)

7126 Plumbers, Pipe Fitters and Related Workers

Plumbers, pipe fitters and related workers assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewage systems, and hydraulic and pneumatic equipment.

Tasks include:

- measuring, cutting, threading, bending, jointing, assembling, installing, maintaining and repairing pipes, fittings and fixtures of drainage, heating water supply and sewage systems
- installing gas appliances, dishwashers and water heaters, sinks and toilets using hand and power tools
- laying clay, concrete or cast-iron pipes in ditches to form sewers, drains or water mains, or for other purposes
- inspecting, examining and testing installed systems and pipes, using pressure gauge, hydrostatic testing, observation or other methods

This unit group includes:

- Mains layer and jointer
- Pool and filtration system worker
- Ship plumber

This unit group excludes:

- Air-conditioning and refrigerating equipment mechanic (7127)
- Engine-room mechanic (ship) (7233)

7127 Air-Conditioning and Refrigeration Mechanics

Air-conditioning and refrigeration mechanics assemble, install, maintain and repair air-conditioning and refrigeration systems and equipment.

Tasks include:

- interpreting blueprints, drawings or other specifications
- assembling, installing and repairing components for air-conditioning and refrigeration systems
- connecting piping equipment by bolting, riveting, welding or brazing
- testing systems, diagnosing faults and performing routine maintenance or servicing

This unit group includes:

- Air-conditioning and refrigerating equipment mechanic
- Refrigeration and air-conditioning equipment installer
- Refrigeration equipment erector

This unit group excludes:

- Gas pipe fitter (7126)

7129 Building Finishers and Related Trades Workers Not Elsewhere Classified

This unit group consists of building finishers and related trades workers not elsewhere classified in Minor Group 712 „Building finishers and related trades workers“.

Tasks include:

- performing miscellaneous installing, maintenance and repairing work on structures such as office buildings, apartment houses, factories and similar establishments in good repair
- performing construction, maintenance or repair work at unusual heights
- performing related tasks

This unit group includes:

- Bracer (construction)
- Shorer (construction)

7131 Building Painters and Related Workers

Building painters and related workers prepare surfaces of buildings and other structures for painting, apply protective and decorative coats of paint or similar materials, or cover interior walls and ceilings of buildings with wallpaper or other finishes.

Tasks include:

- cleaning and preparing walls and other surfaces of buildings for painting or wallpapering
- selecting and preparing paints to required colours by mixing pigments and additives
- applying or spraying paint, varnish and similar materials to surfaces, fixtures and fittings of buildings
- measuring and hanging wallpaper or other fabrics on interior walls and ceilings
- applying paints, varnishes and stains to surfaces using brushes, rollers and sprays

This unit group includes:

- House painter
- Construction painter
- Wallpaper hanger

This unit group excludes:

- Painter (2651)
- Structural steel and ship painter (7132)
- Glass decorator-painter (7316)

7132 Spray Painters, Varnishers and Other Painters

Spray painters, varnishers and other painters operate spray painting and varnishing equipment to apply protective coatings to manufactured items or structures.

Tasks include:

- preparing surfaces to be coated using a variety of methods to remove grease, dirt and rust
- painting cars, buses, trucks and other vehicles, and applying varnish and other protective coatings
- applying paint as well as protective coatings of enamel or varnish on metal, wooden and other manufactured products, usually with a hand-spraying device

This unit group includes:

- Retoucher-painter (manufacturing)
- Ship hull and structural steel painter
- Motor vehicle spray painter

This unit group excludes:

- Building painter (7131)
- Ceramic spray painter (7316)
- Metal sprayer (8124)

7133 Building Maintenance Workers, Building Structure Cleaners and Related Workers

Building maintenance workers, building structure cleaners and related workers clean exterior surfaces of buildings and other structures, and remove soot from chimneys. They also perform maintenance work on buildings and other related works.

Tasks include:

- performing miscellaneous construction and building maintenance work on structures such as office buildings, apartment houses, factories and similar establishments in good repair
- leaning exterior surfaces of stone, brick, metal or similar materials by means of chemicals, or a jet of steam or sand applied under high pressure
- removing soot from flues, chimneys and connecting pipes
- removing asbestos, mould and fire-damaged surfaces from buildings

This unit group includes:

- Building maintenance handyman
- Building exterior cleaner
- Sandblaster (building exteriors)

This unit group excludes:

- Window cleaner (9123)

7200 Supervisors and General Foremen (Metal, Machinery and Related Trades)

Supervisors and general foremen in metal, machinery and related trades supervise production activities within a distinct unit of an establishment concerned with fabrication of metal products, preparation and erection of metal structures, or fitting and installing mechanical, and control and coordinate the activities of workers in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- Supervisor and general foreman (metal and machinery trades)
- Supervisor and general foreman (non-electrical/non-electronic machinery manufacturing and repair)

7211 Metal Moulders and Coremakers

Metal moulders and coremakers make moulds and cores for casting metal.

Tasks include:

- making moulds by hand or using auxiliary machines on a bench for small metal castings, on the foundry floor, or in a pit for large castings
- making cores for use in metal moulds
- cleaning and smoothing moulds, core boxes, and repairing surface imperfections
- moving and positioning work pieces such as mould sections, patterns, and bottom boards, using cranes, or signalling others to move work pieces
- positioning work patterns inside mould sections and clamping sections together
- cutting sprouts, running holes and sprue holes into moulds
- lifting upper mould sections from lower sections and remove moulded patterns

This unit group includes:

- Jarring machine moulder
- Stripping-plate machine moulder
- Tube coremaker

7212 Welders and Flame Cutters

Welders and flame cutters weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.

Tasks include:

- welding metal parts using gas flame, or an electric arc, thermite compound or other methods
- operating resistance-welding machines
- using blowtorch to make and repair lead linings, pipes, floors and other lead fixtures
- brazing metal parts together
- cutting metal pieces using gas flame or an electric arc
- joining metal parts by hand soldering
- monitoring the fitting, burning, and welding processes to avoid overheating of parts or warping, shrinking, distortion, or expansion of material
- examining work pieces for defects and measuring work pieces with straight edges or templates to ensure conformance with specifications

This unit group includes:

- Solderer
- Flame cutter (metal cutting machine)
- Gas cutting machine operator (metal)

7213 Sheet Metal Workers

Sheet metal workers make, install and repair articles and parts of articles made out of sheet metal such as sheet steel, copper, tin, brass, aluminium, zinc or galvanised iron.

Tasks include:

- marking sheet metal for cutting and shaping
- making and repairing household utensils and other articles in tin, copper and light alloys, or ornamental articles and fittings
- making and repairing boilers, tanks, vats and similar containers
- installing and repairing sheet-metal parts of vehicles and aircraft
- converting blueprints into shop drawings to be followed in the construction and assembly of sheet metal products
- determining project requirements, including scope, assembly sequences, and required methods and materials, according to blueprints, drawings, and written or verbal instructions
- inspecting product quality and installation to ensure conformance to specifications

This unit group includes:

- Boilermaking plater
- Panel beater (vehicle)
- Ornamental sheet metal worker

7214 Structural Metal Preparers and Erectors

Structural metal preparers and erectors assemble, erect and dismantle structural metal frames of buildings and other structures.

Tasks include:

- marking metal framework as a guide when drilling, cutting, and shaping them for use in buildings, ships and other structures
- drilling, cutting and shaping structural steel in a workshop
- erecting steel framework for buildings, bridges and other constructions
- assembling and erecting the framework and other metal parts of ships' structures
- shaping and fitting structural-steel plates of ships under construction or repair
- riveting structural-metal members by hand, machine or pneumatic riveter

This unit group includes:

- Ship beam and frame erector
- Ship frame bender and turner
- Steel bender and fixer (reinforced concrete)

7215 Riggers and Cable Splicers

Riggers and cable splicers assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures.

Tasks include:

- estimating the size, shape and weight of objects to be moved and deciding on the type of equipment to move them
- installing and repairing cables, ropes, wires, pulleys and other tackle
- joining, repairing and fitting attachments to wires, ropes and cables
- working as member of crew erecting and repairing derricks for drilling water, gas- and oil wells
- lifting and mounting scenery, lighting and other equipment in theatres and on film sets
- installing and maintaining communication towers, aerial cableways, funicular railways, ski lifts and similar infrastructure

This unit group includes:

- Cable and rope splicer (general)
- Signaller and rigger (Construction)
- Underwater cable splicer

This unit group excludes:

- Scaffolding rigger (7119)
- Crane and hoist operator (8343)

7221 Blacksmiths, Hammersmiths and Forging-Press Workers

Blacksmiths, hammersmiths and forging-press workers, hammer and forge bars, rods or ingots of iron, steel and other metals to make and repair various kinds of tools, equipment and other articles, set machine tools for operators or set and operate various machine tools and polish and sharpen surfaces.

Tasks include:

- hammering and forging iron, steel and other metals to make and repair various kinds of tools, equipment and other articles
- setting machine tools for operators or setting and operating various machine tools working to fine tolerances
- polishing and sharpening metal surfaces and tools

This unit group includes:

- Hot-press operator (forging)
- Ironmongery worker
- Toolsmith

This unit group excludes:

- General machine tool operator (8125)

7222 Toolmakers and Related Workers

Toolmakers and related workers make and repair custom made and specialised tools, sports guns, locks, dies, patterns machinery components and other metal articles using hand and machine tools to work metal to fine tolerances.

Tasks include:

- reading and interpreting engineering drawings and specifications of tools, dies, prototypes or models
- preparing templates and sketches and determining work processes
- visualising and computing dimensions, sizes, shapes, and tolerances of assemblies, based on specifications
- positioning, securing and measuring metal stock or castings to lay out for machining
- setting up, operating and maintaining conventional and computer numerically controlled machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape workpiece to prescribed dimensions and finish
- fitting and assembling parts to make and repair jigs, fixtures and gauges
- repairing and modifying sports guns and other small arms
- making, fitting, assembling, repairing and installing lock parts and locks
- making and repairing metal patterns for preparation of foundry moulds
- laying out lines and reference points on metal stock to guide other workers who cut, turn, mill, grind or otherwise shape metal
- verifying dimensions, alignments and clearances of finished parts for conformance to specifications, using precision measuring instruments and testing completed items for proper operation

This unit group includes:

- Jig and gauge maker
- Tap and die maker
- Template maker

7224 Metal Polishers, Wheel Grinders and Tool Sharpeners

Metal polishers, wheel grinders and tool sharpeners polish and grind metal surfaces and sharpen tools.

Tasks include:

- operating fixed or portable buffing and polishing machines
- sharpening cutting tools and instruments using grinding wheels or mechanically operated grinding machines
- repairing, adjusting and sharpening saw blades and metal teeth of cylinders in textile carding machines
- dressing grinding wheels, according to specifications
- monitoring machine operations to determine whether adjustments are necessary; stop machines when problems occur
- inspecting, feeling, and measuring work pieces to ensure that surfaces and dimensions meet specifications
- selecting and mounting grinding wheels on machines, according to specifications, using hand tools and applying knowledge of abrasives and grinding procedures

This unit group includes:

- Edge tool sharpener
- Metal buffing and polishing machine operator
- Saw repairer and sharpener

This unit group excludes:

- Precision grinding machine setter-operator (8125)

7231 **Motor Vehicle Mechanics and Repairers**

Motor vehicle mechanics and repairers fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.

Tasks include:

- detecting and diagnosing faults in engines and parts
- fitting, examining, testing and servicing motor vehicle and motorcycle engines
- replacing engine components or complete engines
- fitting, examining, adjusting, dismantling, rebuilding and replacing defective parts of motor vehicles
- installing or adjusting motors and brakes, and adjusting steering or other parts of motor vehicles
- installing, adjusting, servicing and replacing mechatronics components of motor vehicles
- performing scheduled maintenance services, such as oil changes, lubrications and engine tune ups, to achieve smoother running of vehicles and ensure compliance with pollution regulations
- reassembling engines and parts after being repaired

This unit group includes:

- Coach body builder (wood)
- Garage mechanic (automobile)

This unit group excludes:

- Bicycle repairer (7233)

7232 **Aircraft Engine Mechanics and Repairers**

Aircraft engine mechanics and repairers fit, service, repair and overhaul aircraft engines and assemblies, such as airframes, hydraulic, and pneumatic systems.

Tasks include:

- fitting, examining, testing and servicing aircraft engines
- replacing engine components or complete engines
- examining and inspecting airframes and aircraft components, including landing gear, hydraulic systems and deicers to detect wear, cracks, breaks, leaks, or other problems
- maintaining, repairing, overhauling, modifying and testing aircraft structural, mechanical and hydraulic systems
- reading and interpreting manuals, service bulletins, and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components

- maintaining, repairing, and rebuilding aircraft structures, functional components, and parts such as wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets and seals
- inspecting completed work to certify that maintenance meets standards and the aircraft is ready for operation
- maintaining repair logs, documenting all preventive and corrective aircraft maintenance
- installing and testing electrical and electronic components, assemblies and systems in aircraft
- connecting components to assemblies such as radio systems, instruments, magnetos, inverters and in-flight refuelling systems

This unit group includes:

- Aeronautical mechanic
- Aircraft engine fitter-assembler
- Hydraulic systems mechanic (aircraft)

7233 **Other Machinery Mechanics and Repairers**

Other machinery mechanics and repairers fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicles, aircraft and electric motors.

Tasks include:

- fitting, installing, examining, servicing and repairing engines, machinery and mechanical equipment
- oiling and greasing stationary engines and machinery
- inspecting and testing new machinery and mechanical equipment for conformity with standards and specifications
- disassembling machinery and equipment to remove parts and make repairs
- examining parts for defects such as breakage and excessive wear
- operating newly repaired machinery and equipment to verify the adequacy of repairs
- recording repairs and maintenance performed

This unit group includes:

- Accounting and calculating machine mechanic
- Coin machine repairer and servicer
- Machinery fitter-assembler (general)

7300 Supervisors and General Foremen (Precision, Handicraft, Printing and Related Trades)

Supervisors and general foremen in precision, handicraft, printing and related trades supervise production activities within a distinct unit of an establishment in which precision instruments, musical instruments, jewellery, pottery and glass products are fabricated or within a unit specialising in typesetting and related work in a printing establishment, and control and coordinate the activities of workers in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- General foreman (ceramics manufacturing)
- Supervisor and general foreman (jewellery manufacturing)
- Supervisor and general foreman (precision instrument manufacturing)

7311 Precision Instrument Makers and Repairers

Precision instrument makers and repairers make, calibrate, repair, maintain, adjust and install mechanical watches, clocks, nautical, meteorological, optical, orthopaedic and other precision instruments and equipment and set them for correct performance.

Tasks include:

- repairing, cleaning, and adjusting mechanisms of timing instruments, such as watches and clocks
- adjusting timing regulators, using callipers, watch-rate recorders and tweezers
- cleaning, rinsing, and drying timepiece parts, using solutions and ultrasonic or mechanical watch-cleaning machines
- testing timepiece accuracy and performance, using meters and other electronic instruments
- testing accuracy of meters, gauges, indicators, or other recording or controlling instruments to locate defective components and for conformance to standards
- calibrating instruments or scales, using hand tools, computer or electronic devices
- inspecting components, connections, and drive mechanisms to detect defects
- assembling instruments and devices, such as barometers, control valves, gyroscopes, hygrometers, speedometers, tachometers and thermostats
- testing, calibrating, and adjusting electronic, mercurial, aneroid and other types of meteorological instruments for compliance with printed specifications and schematic diagrams, using voltmeters, oscilloscopes, tube testers and other test instruments
- adjusting and repairing masts, supporting structures, clearance lights, control panels, control cabling and wiring and other electrical and mechanical devices

- repairing and setting optical instruments such as microscopes, telescopes, theodolites, sextants
- checking whether assembled units conform to specifications and ensuring stipulated performance and sensitivity by standard tests

This unit group includes:

- Precision instrument calibrator
- Chronometer assembler
- Watch and clock repairer

7312 **Musical Instrument Makers, Repairers and Tuners**

Musical instrument makers, repairers and tuners make, assemble, repair, adjust, restore musical instruments and tune them to the required pitch with hand or power tools. They usually specialise in one type of instrument, such as string instruments, brass instruments, pianos, reed instruments or percussion instruments.

Tasks include:

- fabricating and assembling musical instruments and instrument parts of wood, ebonite, metal, leather and other materials
- repairing or replacing musical instrument parts and components, such as strings, bridges, felts, and keys, using hand and power tools
- playing and inspecting instruments to evaluate their sound quality and to locate any defects
- adjusting string tensions to achieve proper tone or pitch of stringed instruments
- adjusting lips, reeds, or toe hole of organ pipes, using hand tools, to regulate airflow and loudness of sound
- tuning and servicing pipe organs by adjusting pitch of organ pipes to conform with pitch of tuning fork and adjusting pitch of other pipes with references to pitch of tuned pipes
- installing new drumheads in percussion instruments
- tuning accordions by aurally comparing pitch of reeds with master reeds and filing reeds to obtain standard pitch
- aligning pads and keys on reed or wind instruments
- tuning percussion instruments to required pitch by tightening or loosening cords holding leather pieces fixed atop or at both ends of instrument
- assembling and installing new pipe organs and pianos in buildings

This unit group includes:

- Metal musical wind instrument maker
- Tone regulator (musical instrument)
- Woodwind instrument maker

7313 **Jewellery and Precious Metal Workers**

Jewellery and precious metal workers design, fabricate, adjust, repair, or appraise jewellery, ceremonial or religious items, gold, silver, other precious metals or gems. They cut, file, polish and set precious and semi-precious stones including gems and diamonds and engrave designs on jewellery and precious metal articles. They cut and polish diamonds for industrial purposes.

Tasks include:

- casting jewellery and other non-ferrous metal articles by hand
- creating new jewellery designs and modifying existing designs, using computers as necessary
- cutting designs in moulds or other materials to be used as models in the fabrication of metal and jewellery products
- altering existing jewellery mountings in order to reposition jewels or to adjust mountings
- repairing, reshaping and restyling old jewellery or precious metal ware following designs or instructions
- making complete jewellery articles such as rings, necklaces, bangles, brooches and bracelets from materials such as gold, silver, platinum, and precious or semiprecious stones
- examining gem surfaces and internal structures, using polariscopes, refractometers, microscopes, and other optical instruments to differentiate between stones, identify rare specimens or to detect flaws, defects, or peculiarities affecting gem values
- cutting and polishing gems and setting them in jewellery articles
- engraving or embossing letters, designs or decorative lines on jewellery and precious metal ware
- grinding, drilling and finishing jewel bearings for use in precision instruments such as compasses and chronometers
- examining assembled or finished products to ensure conformance to specifications, using magnifying glasses or precision measuring instruments

This unit group includes:

- Industrial diamond cutter and polisher
- Jewellery enameller
- Jewellery repairer

7314 **Potters and Related Workers**

Potters and related workers prepare pottery, porcelain ware, sanitary ware, bricks, tiles and abrasive wheels by hand or by machine.

Tasks include:

- making articles of pottery and porcelain
- making clay or plaster of Paris moulds
- reading technical drawings to know customer's requirements
- forming articles on potters' wheel by pressing thumbs into centres of revolving clay to form hollows, and press on the inside and outside of emerging clay cylinders with hands and fingers, gradually raising and shaping clay to desired forms and sizes
- adjusting wheel speeds according to the feel of the clay as pieces enlarge and walls become thinner
- operating jigger machines to form ceramic ware, such as bowls, cups, plates, and saucers
- adjusting and setting controls of pug mill that mixes, extrudes, cuts, and deposits clay charges in or over moulds as specified

- smoothening surfaces of finished pieces, using rubber scrapers and wet sponges
- forming abrasive wheels by moulding and pressing an abrasive mixture by hand or by machine
- examining finished ware for defects, verifying accuracy of shapes and sizes of objects, using callipers and templates
- preparing work for sale or exhibition, and maintaining relationships with retail, pottery, art, and resource networks that can facilitate sale or exhibition of work

This unit group includes:

- Pottery and porcelain jiggerman
- Pottery and porcelain turner
- Tile and brick moulder

7315 **Glass Makers, Cutters, Grinders and Finishers**

Glass makers, cutters, grinders and finishers blow, mould, press, cut, trim, grind and polish glass, shape molten glass according to patterns.

Tasks include:

- heating glass to pliable stage, using gas flames or ovens, and rotating glass to heat it uniformly
- blowing and bending glass tubing into specified shapes to form scientific apparatus like flasks, retorts, pipettes
- grinding and polishing glass objects or parts to correct defects or to prepare surfaces for further finishing and smoothening and polishing rough edges, using belt sander or polishing wheels
- examining glass stock and finished products and marking or discarding items with defects such as spots, stains, scars, snags, chips, scratches, or unacceptable shapes or finishes
- reading work orders to determine dimensions, cutting locations, and quantities to cut
- observing gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments as necessary
- positioning pattern or drawing on glass, measuring dimensions, and marking cutting lines, using glass cutting tools and cutting glass along marked outlines or around pattern
- setting up, operating and adjusting computerised or robotic glass cutting equipment
- inspecting, weighing, and measuring products to verify conformance to specifications, using instruments such as micrometers, callipers, magnifiers, and rulers
- regulating oven temperatures according to glass types to be processed
- transferring pattern for individual stained glass parts from full size drawing to pattern paper, using stylus to trace drawings
- spraying silver solution on glass to provide mirrored surface, using spray gun
- laying out cutting and grinding optical and other glass to specified dimensions and weight for moulding into lens blanks and for use as watch crystals

This unit group includes:

- Glass blower (scientific glass)
- Glass cutter (optical glass)
- Lens polishing machine operator

7316 **Sign Writers, Decorative Painters, Engravers and Etchers**

Sign writers, decorative painters, engravers and etchers decorate articles made of wood, metal, textiles, glass, ceramics and other materials. They plan, lay out and paint letters, figures, monograms and designs to make signs and engrave and etch ornamental and floral designs on glass and other articles.

Tasks include:

- painting decorative free-hand designs on objects, such as pottery, glass, cigarette cases, lampshades
- transferring from paper transfers decorative or ornamental designs on articles
- integrating and developing visual elements, such as line, space, mass, colour, and perspective, in order to produce desired effects such as the illustration of ideas, emotions or moods
- laying out and painting in one or more languages letters, figures, monograms and designs to make signs
- sketching or tracing design or lettering onto work piece or pattern material to prepare pattern or stencil designing pattern or lettering to paint work pieces, such as signs, glassware, pottery or zinc plates
- using software and routing equipment to produce 3D carved images for application onto larger signage as well as engraved and inlaid signs
- designing and producing normal flat cut lettering or lettering that is shadowed with applied vinyl or lettering that is ready cut for application
- writing, painting, or printing signs or show cards used for display or other purposes
- cutting out letters and signs for display purposes from wallboard or cardboard, by hand or machines, such as electrically powered jigsaw or bandsaw
- examining sketches, diagrams, samples, blueprints, or photographs to decide how designs are to be etched, cut or engraved onto work pieces
- measuring and computing dimensions of lettering, designs or patterns to be engraved
- engraving and printing patterns, ornamental designs, etchings, trademarks, figures or lettering onto flat or curved surfaces of a wide variety of metal, glass, plastic or ceramic items
- etching decorative designs, calibration markings and other figures on glass articles

This unit group includes:

- Aerographing decorator (ceramics)
- Brush painter (except construction)
- Glass sandblaster

7321 Pre-Press Trades Workers

Pre-press trades workers proof, format, set and compose text and graphics into a form suitable for use in various printing processes and representation in other visual media.

Tasks include:

- operating graphic cameras and other photographic equipment to reproduce camera-ready copy onto films, plates and digital output devices
- using computer applications to generate images, text, layouts and impositions for print and other visual media displays
- operating plate making equipment to reproduce images from film to printing plates, digital output devices and presses
- operating computer screen-based equipment for scanning, colour separation, colour correction, masking, creative design, combining, imposing, retouching, and other processes used to transfer copy to film and produce film for plate, digital output and cylinder productions
- carrying out digital and chemical proofing from digital systems, and negative and positive films
- evaluating printed proofs, checking and correcting them for quality
- preparing and exposing carbon tissue for laying on cylinders by transfer method, and developing images

This unit group includes:

- Composing machine operator (linotype)
- Electrotype caster
- Music printing engraver

7322 Printers

Silk-screen, block and textile printers cut stencils for use in silk-screen printing and print on paper, metal, textiles and other materials with silk-screens, blocks of rubber, wood or other materials, or engraved printing rollers.

Tasks include:

- cutting stencils for silk-screen printing
- printing on paper, metal, textiles and other materials by silk-screen process
- printing designs and patterns on cloth or wallpaper with engraved blocks or machines equipped with engraved rollers
- performing related tasks
- supervising other workers

This unit group includes:

- Block printer
- Silk screen printer
- Textile printer

7400 Supervisors and General Foremen (Electrical and Electronic Trades)

Supervisors and general foremen in electrical and electronic trades supervise production activities within a distinct unit of an establishment concerned with electrical or electronic machinery and equipment, and control and coordinate the activities of workers in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- General foreman (electrical and electronic installation and repair)
- Supervisors and general foreman (electrical and electronic trades)
- Supervisor and general foreman (M&E)

7411 Electricians

Electricians install, maintain and repair electrical wiring systems and related equipment and fixtures.

Tasks include:

- installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings, other structures and machineries
- examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation
- planning layout and installation of electrical wiring, equipment and fixtures, based on job specifications and relevant standards
- inspecting electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair
- selecting, cutting and connecting wire and cable to terminals and connectors
- measuring and laying out installation reference points
- positioning and installing electrical switchboards
- testing continuity of circuit

This unit group includes:

- Aircraft electrician
- Gaffer
- Installation electrician (building)

7412 Electrical Mechanics and Fitters

Electrical mechanics and fitters fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops or other places.

Tasks include:

- fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switchgear and control apparatus, instruments, or electrical parts of elevators and related equipment
- fitting, adjusting and repairing electrical parts in domestic appliances, industrial machines and other appliances
- inspecting and testing manufactured electrical products
- installing, testing, connecting, commissioning, maintaining and modifying electrical equipment, wiring and control systems
- designing, installing, maintaining, servicing and repairing electric and hydraulic passenger and freight lifts, escalators, moving walkways and other lift equipment
- connecting electrical systems to power supply
- replacing and repairing defective parts

This unit group includes:

- Dynamo fitter
- Electrical elevator and related equipment fitter
- Signage installer (electronic)

7413 Electrical Line Installers and Repairers

Electrical line installers and repairers install, repair and join electrical transmission and supply cables and related equipment.

Tasks include:

- installing and repairing overhead and underground electrical power and electrical traction lines
- making joints in overhead and underground cables
- adhering to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas
- opening switches or attaching grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs
- climbing poles or using truck-mounted buckets to access equipment
- identifying defective sectionalising devices, circuit breakers, fuses, voltage regulators, transformers, switches, relays, or wiring, using wiring diagrams and electrical-testing instruments

This unit group includes:

- Overhead wireman (electric power)
- Underground cable layer

7421 Electronics Mechanics and Servicers

Electronics mechanics and servicers fit, maintain, adjust and repair electronic equipment such as commercial and office machines and electronic instruments and control systems.

Tasks include:

- examining and testing machines, instruments, components, other equipment, instruments and control systems to identify faults
- adjusting, repairing and replacing worn and defective parts and wiring, and maintaining machines, equipment and instruments
- reassembling, test operating and adjusting equipment
- installing electronic instruments and control systems
- coordinating work with that of engineers, technicians and other maintenance personnel
- interpreting test data to diagnose malfunctions and systemic performance problems
- installing, adjusting, repairing or replacing electrical and electronic components, assemblies, and systems using hand tools, power tools or soldering irons
- connecting components to assemblies such as radio systems, instruments, magnetos, inverters and in-flight refuelling systems
- keeping records of maintenance and repair work

This unit group includes:

- Electronics fitter (radio, television and radar equipment)
- Electronic meteorological equipment fitter
- Electronic prototype fitter

7422 Information and Communications Technology Installers and Servicers

Information and communications technology (ICT) installers and servicers install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and conduits and repair, fit and maintain computers.

Tasks include:

- maintaining, troubleshooting, testing and repairing computers, data transmission equipment and computer peripherals
- fitting and adjusting computer hardware
- installing, maintaining, repairing, and diagnosing malfunctions of microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communications systems
- providing technical advice and information, and monitoring the performance of complex telecommunications networks and equipment
- installing and repairing cabling for computer, radio, telephone and television transmission
- joining telecommunications and data cables and sealing sheathes
- installing, maintaining and repairing antennae used in communications

This unit group includes:

- Overhead wireman (telephone and telegraph)
- Radio transmitter fitter
- Telegraphic mechanic

7500 Supervisors and General Foremen (Food Processing, Woodworking, Garment, Leather and Related Trades)

Supervisors and general foremen in food processing, woodworking, garment, leather and related trades supervise production activities within a distinct unit of an establishment in which specific knowledge and skills are used for processing foodstuffs and beverages, preparation of fibres, treatment of wood, manufacture of wooden furniture, fur articles, made-to-order garments, footwear and leather goods, and control and coordinate the activities of workers in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- General foreman (leather goods making)
- Supervisor and general foreman (furniture and related products manufacturing)
- Supervisor and general foreman (shoemaking)

7511 Meat and Fish Preparers

Meat and fish preparers slaughter animals, clean, cut and dress meat and fish, remove bones and prepare related food items or preserve meat, fish and other foods and food products by drying, salting or smoking.

Tasks include:

- slaughtering animals
- flaying and trimming carcasses
- boning, cutting and dressing meat and fish for sale or further processing
- preparing ingredients and making sausages and similar products using chopping, mixing and shaping machines
- curing meat, fish and other foods
- operating smokehouses or ovens to smoke meat, fish and other foodstuffs
- cooking or in other ways preparing meat, fish and related food items for sale

This unit group includes:

- Fish smoker
- Meat dresser (general)
- Poultry slaughterer

7512 Bakers, Pastry and Confectionery Makers

Bakers, pastry-cooks and confectionery makers make various kinds of bread, cakes, and other flour products, as well as handmade chocolate and sugar confectionery.

Tasks include:

- making bread, cakes, biscuits, pastries, pies and other flour products
- making handmade confectionery from mixtures of sugar, chocolate and other ingredients using hand tools and some machines
- combining measured ingredients in bowls of mixing, blending, or cooking machinery
- checking the quality of raw materials to ensure that standards and specifications are met
- applying glazes, icings, or other toppings to baked goods, using spatulas or brushes
- checking the cleanliness of equipment and operation of premises before production runs to ensure compliance with occupational health and safety regulations
- monitoring oven temperatures and product appearance to determine baking times
- coordinating the forming, loading, baking, unloading, de-panning and cooling of batches of bread, rolls, pastry and confectionery products

This unit group includes:

- Confectionery mixer (flour)
- Dough maker (bread)
- Pastry baker

7515 Food and Beverage Tasters and Graders

Food and beverage tasters and graders inspect, taste and grade various types of agricultural products, food and beverages.

Tasks include:

- inspecting, testing, tasting and smelling agricultural products, food and beverages at various stages of processing
- determining quality, acceptability to consumer tastes and approximate value of products and grading them into appropriate classes
- discarding inferior products
- recording the grade and/or identification numbers on tags, receiving, or sales sheets
- weighing and measuring products

This unit group includes:

- Coffee and tea taster

7519 Food Processing and Related Trades Workers Not Elsewhere Classified

This unit group consists of food processing and related trades workers not elsewhere classified in Minor Group 751 „Food processing and related trades workers“. Those who perform miscellaneous food processing and related tasks are classified here.

Tasks include:

- Preparing, inspecting, testing and tasting food products at various stages of processing to determine quality and grade into appropriate class
- performing related tasks

This unit group includes:

- Chinese medicated wine maker
- Jam maker
- Vegetable pickler

7521 Wood Treaters

Wood treaters operate and tend wood treatment processing equipment and machines to remove bark from logs, produce wood chips, season, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products.

Tasks include:

- operating and tending kilns, treating tanks and other equipment to dry lumber, prepare and season wood and other wood products, and to treat chemically and impregnate wood products with preservatives
- monitoring equipment operation, gauges, and panel lights in order to detect deviations from standards and to ensure that processes are operating according to specifications
- assisting in maintaining processing equipment and machines as required
- cleaning, lubricating and adjusting equipment
- transporting materials and products to and from work areas, manually or using carts, handtrucks or hoists
- completing and maintaining production reports

This unit group includes:

- Dry kiln operator
- Wood seasoner
- Wood treater

7522 Cabinet Makers and Wood Related Trades Workers

Cabinet makers and related workers make, decorate and repair wooden furniture, carts and other vehicles, wheels, parts, fittings, patterns, models and other wooden products using woodworking machines, machine tools and specialised hand tools.

Tasks include:

- operating woodworking machines, such as power saws, jointers, mortisers and shapers, and using hand tools to cut, shape and form parts and components
- studying plans, verifying dimensions of articles to be made, or preparing specifications and checking the quality and fit of pieces in order to ensure adherence to specifications
- trimming joints and fitting parts and subassemblies together to form complete units using glue and clamps, and reinforcing joints using nails, screws or other fasteners
- making, restyling and repairing various wooden articles, such as cabinets, furniture, vehicles, scale models, sports equipment and other parts or products
- decorating furniture and fixtures by inlaying wood, applying veneer and carving designs
- finishing surfaces of wooden articles or furniture

This unit group includes:

- Furniture maker (wood)
- Veneer applier
- Wooden model maker

7529 Furniture Makers and Related Trades Workers Not Elsewhere Classified

This unit group consists of furniture makers and related trades workers not elsewhere classified in Minor Group 752 „Wood treaters, cabinet makers and related trades workers“. Those who perform other wood making processes and related tasks are classified here.

Tasks include:

- making wicker furniture from peeled and softened rattan, reeds, rushes, willow branches and similar materials
- making various kinds of baskets by interlacing osier, rattan, reeds, rushes or similar materials
- selecting and preparing brush materials, such as bristles, nylon, fibres and wire and setting them in brush base
- selecting and preparing materials, such as broom corn, bass and whisker fibre, and fastening them to broom handles
- performing related tasks

This unit group includes:

- Basket maker
- Bamboo screen maker
- Furniture maker (basketry)

7531 Tailors/Dressmakers

Tailors, dressmakers, fabricate, fit, alter and repair tailored or hand-made clothing. They produce made-to-measure clothing such as suits, overcoats, and dresses from textile fabrics, and other material, according to customers' and clothing manufacturers' specifications.

Tasks include:

- making overcoats, suits, skirts, shirts, blouses, lingerie, corsetry and similar garments often to clients' individual requirements
- selecting textile fabrics, leather or fur pelts matching the desired size, colour, texture, and quality of the garment; cutting to shape them to garment pattern and arranging them on pattern according to the design of the garment
- making garment style changes, such as tapering trouser legs, narrowing lapels, and adding or removing padding
- selecting and modifying commercial patterns to customers' and clothing manufacturers' specifications and fit
- fitting, altering and repairing tailored clothing, dresses, coats and other made-to-measure garments according to customers' requests
- making and caring for costumes used in theatrical, television and motion picture productions

This unit group includes:

- Dressmaker
- Gown maker
- Tailor (made-to-measure garment)

7532 Garment and Related Pattern-Makers and Cutters

Textile, leather and related patternmakers and cutters create precision master patterns for production of garments, other textiles, and leather or fur products. They mark, cut, shape and trim textile, light leather and other materials according to blueprints or specifications in the manufacture of garments, hats and caps, gloves and miscellaneous products.

Tasks include:

- creating a master pattern for each size within a range of garment sizes, using charts, drafting instruments, computers, and/or grading devices
- creating the “blueprint” or pattern pieces for a particular apparel design with the aid of a computer
- calculating dimensions of patterns according to sizes, considering stretching of material
- drawing details on outlined parts to indicate where the parts are to be joined, as well as the positions of pleats, pockets, buttonholes on garments, decorative stitching on shoe parts or eyelets on canvas products, using computers or drafting instruments
- positioning templates or measuring materials to locate specified points of cuts or to obtain maximum yields and mark fabric accordingly
- laying out master pattern on fabric and cutting sample pattern
- testing patterns by making and fitting sample garments

- placing patterns on top of layers of fabric and cutting fabric following patterns, using electric or manual knives, cutters or computer numerically controlled cutting devices
- cutting fabric or fur pelts to make parts for garments and other fur articles
- trimming excess material or cutting threads off finished products, such as cutting loose ends of a finished product
- positioning leather on cutting bed of machine, maximising usage according to skin grain, skin flaws and skin stretch
- performing pattern-making, marking and cutting tasks in the manufacture of other products such as soft furnishings and canvas goods

This unit group includes:

- Garment cutting marker
- Garment patternmaker
- Tailor's cutter

7534 Upholsterers and Related Workers

Upholsterers and related workers install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances; seats, panels, convertible and vinyl tops and other furnishings of automobiles, railway coaches, aircraft, ships and similar items with fabric, leather, rexine or other upholstery material. They also make and repair cushions, quilts and mattresses.

Tasks include:

- discussing upholstery fabric, colour, and style with customers and providing cost estimate for upholstering furniture or other items
- making upholstery patterns from sketches, customer descriptions or blueprints
- laying out, measuring and cutting upholstery materials following patterns, templates, sketches, or design specifications
- installing, arranging and securing springs, padding and covering material to furniture frames
- sewing upholstery materials by hand to seam cushions and joining sections of covering materials
- sewing rips or tears in material, or creating tufting, using needle and thread
- tacking, gluing or sewing ornamental trims, buckles, braids, buttons and other accessories to covers or frames on upholstered items
- laying out, cutting, fabricating and installing upholstery in aircrafts, motor vehicles, railway cars, boats and ships
- repairing raw hide covering of artificial limbs
- renovating antique furniture using a variety of tools including ripping chisels, magnetic hammers and long needles
- collaborating with interior designers to decorate rooms and coordinate furnishing fabrics
- making quilts, cushions and mattresses

This unit group includes:

- Bedding maker
- Mattress sewer
- Rail-carriage upholsterer

7536 **Shoemakers and Related Workers**

Shoemakers and related workers make, modify and repair standard, custom or orthopaedic footwear and natural or synthetic leather articles, such as luggage, handbags and belts, (except for leather garments, hats and gloves), or participate in the manufacture of shoes and related goods. They decorate, reinforce or finish shoes, luggage, handbags and belts.

Tasks include:

- making, modifying and repairing standard footwear to meet individual requirements
- making, modifying and repairing orthopaedic or therapeutic footwear according to doctors' prescriptions, or modifying existing footwear for people with foot problems and special needs
- repairing belts, luggage, purses and similar products
- taking plaster casts of deformed legs or foot to prepare drawings
- preparing inserts, heel pads, and lifts from casts of customers' feet
- studying drawings and other specifications to make footwear according to customer's needs
- studying work orders and/or shoe part tags to obtain information about workloads, specifications, and the types of materials to be used
- checking the texture, colour, and strength of leather to ensure that it is adequate for a particular purpose
- cutting out, shaping and padding parts for making leather articles
- sewing rips or patching holes to repair articles, such as purses, belts, shoes, and luggage
- removing and examining shoes, shoe parts, and designs to verify conformance to specifications such as proper embedding of stitches in channels
- attaching accessories or ornamentation to decorate or protect products
- making and repairing articles such as saddles and harnesses for animals, luggage, handbags, brief-cases, leather bags, belts and other accessories

This unit group includes:

- Orthopaedic footwear maker
- Perforating machine operator (shoe finishing)
- Surgical boot and shoe maker

7539 Garment and Related Trades Workers Not Elsewhere Classified

This unit group consists of garment and related trades workers not elsewhere classified in Minor Group 753 „Garment, leather and related trades workers“. Those who perform other garment making and related tasks are classified here.

Tasks include:

- performing various sewing tasks in making, altering and repairing articles of textile, leather and other materials
- embroidering decorative designs on garments or materials
- inspecting and testing products, parts and materials for conformity with specifications and standards
- grading and classifying natural textile fibres for spinning and winding
- assembling and covering umbrellas
- sorting and grading pelts, hides and skins
- treating hides to convert them into leather
- applying dyes to fur pelts
- dressing and applying dyes and stains to leather
- performing related tasks

This unit group includes:

- Cloth grader
- Fabrics repairer
- Tent maker

7540 Other Craft and Related Workers

Other craft and related workers work under the surface of water, using underwater breathing apparatus; position, assemble, and detonate explosives; inspect and test, raw materials, manufactured components and products; remove unwanted organisms to prevent damage to crops and buildings and other structures. This group includes other trade and craft occupations not classified elsewhere in Major Group 7 „Craftsmen and related trades workers“.

Tasks include:

- ensuring safety precautions
- performing various underwater tasks
- loading explosives into blast holes
- mixing chemicals according to instructions
- operating and monitoring equipment for spraying pests and weeds

This unit group includes:

- Construction diver
- Rubber stamp maker
- Wig maker

8100 Stationary Plant and Machine Supervisors and General Foremen

Stationary plant and machine supervisors and general foremen supervise production activities of a distinct unit at a well drilling site; or within establishment engaged in processing of mineral ore and stone, metal, wood, or chemicals; within establishment concerned with the production and distribution of electricity, steam or gas, or with water supply, sewage disposal and treatment; or refrigeration and assimilated services; or within establishment in which machines are used in the manufacturing of various products on an industrial basis and control and coordinate the activities of workers in various occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- General foreman (metal processing)
- General foreman (chemical processing)
- Industrial plant supervisor and general foreman

This unit group excludes:

- Assembly and quality check supervisor and general foreman (8200)

8113 Well Drillers and Borers and Other Mining Related Workers

Well drillers and borers and other mining related workers operate, assemble and monitor machines for cutting channels in mine workforce or for the drilling and sinking of wells, extract ore, liquids and gases or for a variety of other purposes.

Tasks include:

- operating and monitoring machinery and equipment used for continuous mining or for drilling holes or cutting channels in a mine or quarry workface
- operating and monitoring machinery and equipment used for drilling and sinking of wells
- dismantling, moving and assembling drilling rigs and auxiliary equipment
- assembling and dismantling pipes, casings and drill heads and replacing dysfunctional equipment
- preparing drilling fluid and checking the operation of pumps to ensure adequate circulation of fluid in drill pipe and well
- maintaining records of drilling and servicing operations
- closing and sealing wells no longer in use

This unit group includes:

- Derrickman
- Cable Driller
- Rotary Driller
- Acidiser
- Fishing-tool operator (oil and gas wells)

8114 Cement and Other Mineral Products Machine Operators

Cement and other mineral products machine operators operate and monitor machines for manufacturing and finishing precast concrete, bitumen and making cast stone for building purposes.

Tasks include:

- setting up and operating stationary plant and machinery which grind, crush, cut, saw and slice rocks, minerals and stones according to the specifications for the job
- operating extrusion, moulding, mixing, pumping, compacting, grinding and cutting machinery to manufacture and finish precast concrete and other mineral products
- operating machines to produce cement, lime and clinker, including loading and unloading ingredients and operating continuous feed equipment such as pumps and conveyors
- operating machines which weigh and mix sand, gravel, cement, water and other ingredients to make concrete
- operating machines which assembles and fills moulds with concrete and artificial stone mixtures, removes castings from moulds and finishes surfaces of precast products
- cutting, grinding, drilling, sandblasting and polishing concrete products and stone blocks, slabs and products to the specifications for the job
- collecting and examining samples of mixtures and finished products for conformity to specifications and adjusting machine settings accordingly
- arranging and assisting with machinery maintenance and repair

This unit group includes:

- Fibro-cement machine operator
- Asbestos cement product making machine operator
- Terrazzo tile making machine operator
- Concrete pump operator

8121 Metal Melters, Casters and Rolling Mill Operators

Metal melters, casters and rolling mill operators operate, monitor, adjust and maintain machinery and equipment to process and convert mineral ores, cast, roll metals.

Tasks include:

- setting up, preparing and adjusting metal processing machinery to process and convert mineral ores or cast metals or roll metals
- operating machinery to convert, cast or roll metals and mineral ores
- observing gauges, meters, computer printouts, video monitors and products to ensure correct operation of machine and verify specified processing conditions
- adjusting equipment, valves, pumps, controls and process equipment
- controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment
- verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance
- analysing sample products, performing tests, recording data and writing production logs

This unit group includes:

- Bar mill roller
- Continuous rod casting machine operator
- Cupola furnaceman
- Metal pourer

8122 **Metal Heat Treating Plant Operators**

Metal heat treating plant operators operate, monitor, adjust and maintain machinery and equipment to treat and process metals.

Tasks include:

- setting up, preparing and adjusting metal processing machinery to treat and process metals
- operating machinery to treat and process metals
- observing gauges, meters, computer printouts, video monitors and products to ensure correct operation of machine and verify specified processing conditions
- adjusting equipment, valves, pumps, controls and process equipment
- controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment
- verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance
- analysing sample products, performing tests, recording data and writing production logs

This unit group includes:

- Metal annealer
- Cyanide hardener
- Metal temperer
- Nitrider

8123 **Metal Drawers and Extruders**

Metal drawers and extruders draw and extrude metals through dies to make wire, pipes, tubes and similar products.

Tasks include:

- setting up, preparing and adjusting metal processing machinery to make wires, pipes tubes and similar metal products
- setting and operating a wire-drawing machine
- setting and operating a machine to draw seamless metal tubing
- setting and operating a hydraulic press to extrude metal rods, bars and seamless tubing

This unit group includes:

- Bar extruder operator (metal)
- Rod extruder operator
- Seamless pipe and tube drawer

8124 Metal Finishing, Plating and Coating Machine Operators

Metal finishing, plating and coating machine operators operate and monitor equipment which finishes, plates and coats metal articles or parts, in order to give them improved resistance to corrosion and abrasion, for decorative purposes, or to impart electrical or magnetic properties.

Tasks include:

- operating and monitoring equipment which cleans metal articles in preparation for electroplating, galvanising, enamelling or similar processes
- operating and monitoring electroplating equipment
- operating and monitoring hot-dip equipment used to coat iron and steel products
- operating and monitoring machines which automatically coat wire with non-ferrous metal
- operating and monitoring equipment used to spray molten metal or other substances on metal products to provide a protecting or decorative coating or to build up worn or damaged surfaces
- operating and monitoring equipment used to impart a rust-resistant finish to metal articles by treating them with chemicals and heating them
- checking proper thickness of plating using micrometers, callipers or other devices recording data and writing production logs
- preparing and mixing metalising solutions according to formulas or specifications

This unit group includes:

- Electroplater
- Galvaniser
- Metal sprayer
- Anodiser
- Sandblaster/Shotblaster (Metal)

8125 Machine-Tool Setter-Operators

Machine-tool setter-operators set and/or operate, various machine tools working to fine tolerances.

Tasks include:

- setting one or more types of machine tool for production of metal articles in standardised series
- operating and monitoring metalworking machines, such as lathes, milling, planning, boring, drilling, grinding or honing machines, including multi-purpose numerically controlled metalworking machines
- observing machine operations to detect work piece defects or machine malfunctions, adjusting machines as necessary
- inspecting work pieces for defects, and measuring work pieces to determine accuracy of machine operation, using rules, templates, or other measuring instruments
- changing worn machine accessories, such as cutting tools and brushes, using hand tools

This unit group includes:

- Cylinder honer
- Metal bending machine operator
- Metal milling machine operator

8131 Chemical Processing and Chemical Products Plant and Machine Operators

Chemical processing and chemical products plant and machine operators monitor and operate chemical plants, units and machinery and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals, to blend, mix, process and package a wide range of chemical products.

Tasks include:

- operating and monitoring machinery which distil, filter, separate, heat or refine chemicals, to blend, mix, process and package a wide range of chemical products
- controlling the preparation, measuring and feeding of raw materials and processing agents such as catalysts and filtering media into plant
- controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment
- verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance
- monitoring reaction processes and transfers of products in conformance with safety procedures
- taking samples and performing routine chemical and physical tests of products and recording production data

This unit group includes:

- Acetylene filler
- Candle making machine operator
- Formic acid plant operator

This unit group excludes:

- Pharmaceutical and toiletry products machine operators (8133)

8132 Photographic Products Machine Operators

Photographic products machine operators operate and monitor equipment which makes photographic film and paper and which processes exposed photographic film and makes prints.

Tasks include:

- operating and monitoring equipments which makes photographic film and paper
- operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards
- preparing exposed film for different processing batches in dark rooms and dark chambers
- inspecting images, films, prints and adjusting settings on print-making equipment to produce required colour, brightness, contrast, number, size and type of prints
- adjusting settings and running automatic developing equipment
- operating equipment to transfer film to video tape or other electronic media
- performing photographic processing related tasks
- operating automatic equipment (in retail establishments) to develop colour negatives, prints and slides

This unit group includes:

- Photograph developer
- Photograph printing machine operator
- Photographic plate maker
- Photographic print developer
- X-ray film developer

8133 **Pharmaceutical and Toiletry Products Machine Operators**

Pharmaceutical and toiletry products machine operators operate and monitor machines which process a variety of chemicals and other ingredients used in the production of pharmaceutical and toiletry products.

Tasks include:

- operating and monitoring equipment for moulding, filtering, fermenting, heating, mixing, grinding, filling and sealing materials used in the production of pharmaceutical, toiletry and related products
- maintaining operational standards of tablets and pills coating machines
- operating controls to regulate temperature, pressure, flow and speed of operation

This unit group includes:

- Tablets and pills coating machine operator
- Granulator machine operator
- Soap making machine operator

This unit group excludes:

- Chemical processing and chemical products plant and machine operators (8131)

8139 **Chemical Processing, Chemical and Photographic Products Plant and Machine Operators Not Elsewhere Classified**

This unit group covers other chemical processing, chemical and photographic products plant and machine operators not elsewhere classified in Minor Group 813.

Tasks include:

- operating and monitoring equipment which produces electric cells or other chemical and photographic products

This unit group includes:

- Electric cell man

This unit group excludes:

- Lead oxide maker (8131)
- Candle making machine operator (8131)

8141 **Rubber Products Machine Operators**

Rubber products machine operators monitor and operate machines which knead and blend rubber and rubber compounds to produce various components and products from natural and synthetic rubber, such as moulded footwear, domestic articles, insulating materials, industrial accessories or tyres.

Tasks include:

- operating and monitoring machines which knead, mix and blend rubber and rubber compounds for further processing
- operating and monitoring machines which produces sheets of rubber or rubberised fabric by a rolling process
- operating and monitoring machines which extrude compounded rubber or shape vulcanised rubber by moulding
- operating and monitoring machines which build up tyres on a form, vulcanise tyres and mould or rebuild used tyres
- examining outputs for defects and conformity to specifications
- Locating defects and repairing worn and faulty tyres by vulcanising or other processes

This unit group includes:

- Tyre making machine operator
- Rubber laminating machine operator
- Rubber calendar machine operator

This unit group excludes:

- Rubber stamp maker (7540)

8142 **Plastic Products Machine Operators**

Plastic products machine operators monitor and operate machines which knead and blend compounds to obtain plastic materials, which make various plastic components and articles.

Tasks include:

- operating and monitoring machines which knead and blend compounds to obtain plastic materials
- operating and monitoring machines which shape plastic materials by moulding, extrusion, blowing, cutting and other means
- operating and monitoring machines which laminate plastics and plastic impregnated materials
- encasing uncoated wire, cord, cable and optic fibre in plastic
- examining outputs for defects and conformity to specifications
- making and repairing spectacle frames and plastic parts of orthopaedic appliances

This unit group includes:

- Plastics gauge and jig maker
- Plastics laminator
- Polythene bag making machine operator

This unit group excludes:

- Fibreglass maker (8181)

8143 **Paper and Paperboard Products Machine Operators**

Paper and paperboard products machine operators monitor and operate machines which produce boxes, envelopes, bags and other goods from paper, paperboard and other similar materials.

Tasks include:

- operating and monitoring machines which glue paper to cardboard, cut it to the required length or cut and crease cardboard or paperboard to form box blanks
- operating and monitoring machines which form drinking cups or other containers from paper, paperboard or cardboard
- operating and monitoring machines which cut, fold and glue paper to make envelopes and paper bags, or which form bags from other similar materials

This unit group includes:

- Toilet paper roll making machine operator
- Paper novelty maker
- Joss paper and other ceremonial paper maker

8151 **Fibre Preparing, Spinning and Winding Machine Operators**

Fibre-preparing, spinning and winding machine operators monitor and operate machines which prepare fibres and spin, double, twist and wind yarn and thread from natural textile fibres. They twist two or more strands of yarn to prepare single stronger, uniform and heavier strands and treat textiles to make them stiff and water resistant.

Tasks include:

- operating and monitoring machines for tearing woollen rags into fibre
- operating and monitoring machines for cleaning and turning woollen yarn waste into fluffed wool
- operating and monitoring machines which combine textile fibres into uniform blends
- operating and monitoring machines which clean and fluff textile fibres, transform them into sliver, comb them into sliver for first drawing, combine slivers into sliver lap or sliver laps into ribbon lap
- operating draw frame (machine) having number of drawing sets, each set combining several slivers into one of nearly same weight and thickness as any of original sliver
- operating and monitoring machines which spin thread and yarn from roving, wind two or more threads onto bobbin, twist two or more strands of yarn or thread into single strands of yarn to increase strength, smoothness and/or uniformity of yarn, or wind yarn or thread from one package to another
- operating and monitoring spinning frame that draws out and twists roving or sliver into yarn
- operating and monitoring machines for drawing slivers received from drawing machine into loosely twisted strands
- preparing sizing for use in stiffening and finishing cloth and yarn by mixing ingredients such as starch, tallow, resins, soap and water and boiling mixture for specified time in steam
- treating textiles with chemicals to make them water resistant
- cleaning rollers and cylinders of caring machines to remove wool waste
- operating and resurfacing metal drawing rolls of various spinning, combing and lapping machines with new rubber or leather covers

This unit group includes:

- Spinning frame operator (thread and yarn)
- Doubling machine operator (thread and yarn)
- Yarn twister
- Yarn winder

8152 **Weaving and Knitting Machine Operators**

Weaving and knitting machine operators set up, monitor and operate weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric.

Tasks include:

- setting up and operating batteries of automatic, link-type knitting machines to knit garments of specified pattern and design
- threading yarn, thread and fabric through guides, needles and rollers of machine for weaving, knitting or other processing
- tending automatic looms that simultaneously weave pile yarn, filling yarn, and warp yarn material to produce carpets and rugs with various coloured designs
- operating and monitoring loom on which yarn or twist is intersected and knotted at regular intervals to form mesh
- operating and monitoring large automatic multi-needle machines to embroider material or to sew lengths of several layers of material to make yard goods, quilts or mattress coverings
- tending circular knitting machines with automatic pattern controls that knit seamless hose
- operating and monitoring knitting machines to knit hosiery to shape of foot and leg
- operating and monitoring machine for knitting heel and toes of socks into ribs or tops cut from circular fabric
- operating and monitoring machine which seams opening in toes of socks
- operating and monitoring crocheter machine to knit lace, trimming etc of desired pattern or design
- examining looms to determine causes of loom stoppage, such as warp filling, harness breaks or mechanical defects
- repairing or replacing of worn or defective needles and other components
- cleaning, oiling and lubricating machines, using air hoses, cleaning solutions, rags, oil cans and/or grease guns

This unit group includes:

- Axminster weaver
- Carpet weaving loom operator
- Jacquard loom operator
- Fringing machine operator

This unit group excludes:

- Sewing machine operator (8153)

8153 Sewing Machine Operators

Sewing machine operators operate and monitor sewing machines to make, repair, darn and renovate textile, fur, synthetic or leather garments or embroider ornamental designs on garments or other materials. They operate button hole making and eyelet holing machines to cut holes, stitch around holes, stitch buttons and fix eyelets to garments.

Tasks include:

- operating or tending sewing machines to perform garment sewing operations, such as joining, reinforcing, seaming or decorating garments or garment parts
- attaching buttons, hooks, zippers, fasteners, or other accessories to fabric, using feeding hoppers or clamp holders
- tending semiautomatic sewing machines with multiple-sewing heads controlled by pattern chain that embroiders various designs on garments
- operating machines, such as single or double needle serging and flat-bed felling machines to automatically join, reinforce, or decorate material or articles
- operating stitching machines to sew leather parts together for leather garments, handbags, gloves
- monitoring machine operation to detect problems such as defective stitching, breaks in thread, or machine malfunctions
- performing equipment maintenance tasks such as replacing needles

This unit group includes:

- Garment-sewing machine operator
- Hat and cap sewer (machine)
- Embroidering machine operator
- Sewing machine operator (general)

This unit group excludes:

- Weaving and knitting machine operator (8152)

8154 Bleaching, Dyeing and Fabric Cleaning Machine Operators

Bleaching, dyeing and fabric cleaning machine operators operate and monitor machines that bleach, shrink, dye and otherwise treat fibres, yarn or cloth.

Tasks include:

- starting and controlling machines and equipment to bleach, dye or otherwise process and finish fabric, yarn, thread, and/or other textile goods
- tending machines that shrink woven or knitted cloth to predetermined size or strengthen the weave by interlocking the fibres
- operating and monitoring machines that treat silk to give it body and weight
- operating and monitoring machines that impregnate textiles with chemicals to render them waterproof
- dyeing articles to change or restore their colours
- operating and monitoring machines that stretch, or impart lustre, or other type of finish to textiles
- keying in processing instructions to programme electronic equipment
- observing display screens, control panels, equipment, and cloth entering or exiting processes to determine if equipment is operating correctly

This unit group includes:

- Textile-bleaching machine operator
- Yarn dyer
- Textile-shrinking machine operator
- Singeing machine operator

This unit group excludes:

- Laundry and dry cleaning machine worker (8159)

8159 **Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified**

This unit group includes laundry and dry cleaning machine operators and operators of machines that produce textile, fur and leather products not elsewhere classified in Minor Group 815.

Tasks include:

- operating and monitoring machines which mark patterns and cut shoe parts or sew shoe parts together or edge, polish, or apply ornaments and perform finishing tasks on shoes
- operating and tending machines that washes and dry garments
- operating and monitoring machines which make miscellaneous articles such as braids or other trimmings
- operating and monitoring machines to measure size of pieces of leather

This unit group includes:

- Laundry and dry cleaning worker (machine, non-household)
- Fishing net maker
- Braid making machine operator

This unit group excludes:

- Bleaching, dyeing and fabric cleaning machine operators (8154)

8161 **Meat and Fish Products Machine Operators**

Meat and fish products machine operators operate and monitor meat and fish processing machines to manufacture meat and fish related products for human and animal consumption.

Tasks include:

- operating and monitoring machinery used for manufacturing meat and fish products

This unit group includes:

- Sausage making machine operator
- Autoclave operator (foodstuffs)
- Fish processing machine operator
- Meat processing machine operator
- Vacuum oven operator (foodstuffs)

8162 Dairy and Confectionery Products Machine Operators

Dairy and confectionery products machine operators set, operate and attend to machinery used to mix, bake and prepare dairy and confectionery products.

Tasks include:

- operating and monitoring machinery used for processing milk and cream and manufacturing dairy products

This unit group includes:

- Dairy product processing machine operator
- Dairy product pasteurising machine operator
- Ice-cream making machine operator
- Chocolate making machine operator
- Mogul operator (sugar confectionery)

8163 Grain and Spice Milling Machine Operators

Grain and spice milling machine operators set, operate and attend to machinery used to crush and grind grain and spice and related foodstuffs.

Tasks include:

- operating and monitoring machinery used for processing grain, spices or similar foodstuffs

This unit group includes:

- Corn milling machine operator
- Grain milling machine operator
- Husking machine operator (grain milling)
- Pearling machine operator (grain milling)
- Silksman (grain milling)

8164 Baked and Cereal Products Machine Operators

Baked and cereal products machine operators set, operate and attend to machinery used for processing baked and cereal related foodstuffs.

Tasks include:

- operating and monitoring machinery used for making biscuits, noodles and related foodstuffs

This unit group includes:

- Biscuit making machine operator
- Ovenman (biscuits)
- Macaroni making machine operator
- Vermicelli making machine operator
- Cereal processing machine operator

8165 Fruit, Vegetable and Nut Products Machine Operators

Fruit, vegetable and nut products machine operators set, operate and attend to machinery used for extracting juice, oils and fats from fruits, vegetable and nut products.

Tasks include:

- operating and monitoring machinery used for processing fruit, vegetable and nut products

This unit group includes:

- Fruit press operator
- Oil pressman (edible oils)
- Coconut oil miller
- Copra miller
- Gingili miller
- Blancher (nuts)
- Nut grinding machine operator

8166 Sugar Processing and Refining Machine Operators

Sugar processing and refining machine operators set, operate and attend to machinery used for processing and refining sugar.

Tasks include:

- operating and monitoring machinery used for processing and refining sugar

This unit group includes:

- Clarifier operator (sugar refining)
- Crystalliser operator (sugar refining)
- Sugar beet press operator
- Sugar sieve operator
- Sulphitation man (sugar refining)

8167 Brewers and Wine and Other Beverage Machine Operators

Brewers and wine and other beverage machine operators set, operate and attend to machinery used to process and produce beer, wines, malt liquors, coffee, tea and syrup.

Tasks include:

- operating and monitoring machinery used to crush, mix, malt, cook and ferment grains and fruits to produce beer, wines, malt liquors, coffee, tea and syrup
- operating and monitoring equipment to cool, heat, dry, roast, blanch, pasteurise, smoke, sterilise, freeze, evaporate and concentrate liquid

This unit group includes:

- Germination worker (malting)
- Malt fireman
- Fermenting room man
- Syrup making machine operator
- Yeast maker

8168 Tobacco Products Machine Operators

Tobacco products machine operators set, operate and attend to machinery used to process tobacco leaves to produce cigarette and other tobacco products.

Tasks include:

- operating and attending to machinery to process tobacco leaves to make cigarettes, cigars, pipe and other tobacco products

This unit group includes:

- Cigarette making machine operator
- Cheroot making machine operator
- Cigar making machine operator
- Cigarette machine catcher

8169 Food and Related Products Machine Operators Not Elsewhere Classified

Food and related products machine operators not elsewhere classified set, operate and attend to machinery used to process and produce other food and related products for human and animal consumption.

Tasks include:

- operating and attending to machinery to make food and other related products e.g. bean curd, ice, fish meal

This unit group includes:

- Bean curd making machine operator
- Ice making machine operator
- Feed mixing machine operator
- Sago maker
- Tapioca miller

8171 Pulp and Papermaking Plant Operators

Pulp and papermaking plant operators operate and monitor multi-function process control machinery and processing equipment to control the processing of wood, scrap pulp and other cellulose materials in the production of pulp.

Tasks include:

- co-ordinating and monitoring the operation of screening equipment, washing equipment, digesters, mixing tanks and other pulp processing equipment from automated panel boards in central control room to control the processing of wood, scrap pulp, recyclable paper and other cellulose materials
- operating and monitoring screening equipment, bleaching equipment, digesters, mixing tanks, washers and other pulp processing machinery and equipment to carry out one or more cellulose processing steps
- controlling start-up and shut-down of process machinery and equipment, and observing equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- analysing instrument readings and production test samples and making adjustments to pulp production process and equipment as required
- completing and maintaining production reports

This unit group includes:

- Paper pulp preparation plant operator
- Wood grinder
- Supercalendar operator
- Paper corrugating machine operator
- Varnishing machine operator (papermaking)

This unit group excludes:

- Paper and paperboard products machine operator (8143)

8172 **Wood Processing Plant Operators**

Wood processing plant operators monitor, operate and control automated lumber mill equipment for sawing timber logs into rough lumber, cutting veneer, making plywood and particle board and otherwise, preparing wood for further use.

Tasks include:

- examining logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or operating automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns
- operating and monitoring log-in feed and conveyor systems
- operating and monitoring automated lumber mill equipment from control rooms or equipment consoles head saws, resaws and multiblade saws to saw logs, cants, flitches, slabs or wings and remove rough edges from sawn timber into dressed lumber of various sizes, and saw or split shingles and shakes
- operating and monitoring plywood core-laying machines and hot-plate plywood presses and machines which cut veneer
- cleaning and lubricating sawmill equipment

This unit group includes:

- Band-saw operator
- Sawyer
- Rotary veneer machine operator
- Plywood core layer
- Wood shavings machine operator

This unit group excludes:

- Wood products machine operator (8173)

8173 **Wood Products Machine Operators**

Wood products machine operators monitor and operate automatic and semi-automatic woodworking machines which perform repetitive work.

Tasks include:

- operating and monitoring woodworking machines for sawing, shaping, boring, planing, turning or carving wood

This unit group includes:

- Woodworking machine operator (general)
- Fret-saw operator
- Boring machine operator (woodworking)

- Pencil making machine operator
- Wood turning lathe operator

This unit group excludes:

- Wood processing plant operators (8172)

8181 **Glass and Ceramics Plant Operators**

Glass and ceramic plant operators monitor and operate kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks. They operate machines to anneal, harden or decorate glass and ceramics.

Tasks include:

- operating and monitoring glass-making furnaces to make glass by melting and fusing pre-mixed ingredients
- tending hot or cold-end spray equipment used to coat glassware with surface hardener
- operating and maintaining machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses
- operating hand press to mould glass into required shape
- operating drawing kiln to process molten glass into continuous sheet of flat glass
- operating and monitoring floating-glass production plant
- operating and maintaining finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products
- setting and operating press machines to mould ceramic articles from moist clay
- operating machines to mix clay with water to knead it into a suitable plastic condition or semi-liquid form for making ceramic products
- operating and monitoring kilns which bake pottery, porcelain ware and bake bricks and tiles
- operating and monitoring machines for making glaze or abrasives
- operating and monitoring machines which extrude molten glass to form fibreglass filaments
- observing finished products to identify splits, cracks, breaks, colour and other imperfections

This unit group includes:

- Ceramic kiln operator
- Glass annealing furnaceman
- Fibreglass maker
- Glass float bath operator
- Laminated glass worker

This unit group excludes:

- Plastic products machine operators (8142)

8182 **Steam Engine and Boiler Operators**

Steam engine and boiler operators maintain and operate various types of steam engines, boilers, turbines and auxiliary equipment to provide power and other utility services for commercial, industrial and institutional buildings, at work sites and aboard ships or self-propelled vessels.

Tasks include:

- operating, cleaning, lubricating and monitoring steam engines, boilers and auxiliary equipment such as pumps, compressors and air-conditioning equipment to supply and maintain steam and power for buildings, marine vessels or pneumatic tools
- analysing and recording instrument readings, troubleshooting and performing minor repairs to prevent equipment or system failure
- monitoring and inspecting performance of equipment for efficient operation and ensuring boiler water, chemical and fuel levels are maintained at required levels
- firing coal furnaces by hand or with stokers and gas or oil-fed boilers, using automatic gas feeds or oil pumps
- testing boiler water quality or arrange for testing, adjusting and taking necessary corrective action, such as adding chemicals to prevent corrosion and harmful deposits
- monitoring ship's engine, machinery and equipment indicators, recording variables and reporting abnormalities to ship engineer officer on watch
- operating and maintaining off-loading liquid pumps and valves

This unit group includes:

- Boiler attendant
- Ship's fireman
- Ship motorman
- Locomotive fireman

8183 **Packing, Bottling and Labelling Machine Operators**

Packing, bottling and labelling machine operators monitor and operate machines which weigh, pack and label various products or fill different containers with products.

Tasks include:

- operating and monitoring machines that weigh, wrap, seal and pack various products
- operating and monitoring machines that fill and seal tubes, bottles, cans, boxes, bags and other containers with products such as food, beverages, paints, oils and lotions
- operating and monitoring machines that, by gluing or other methods, label products, packages and various containers

This unit group includes:

- Goods marking machine operator
- Machine labeller
- Capping and sealing machine operator

This unit group excludes:

- Manufacturing labourers and related workers (9320)

8184 Printing, Binding and Related Machine Operators

Printing, binding and related machine operators monitor and operate various types of printing and copying machines which print and copy onto paper or machines which bind and emboss books.

Tasks include:

- operating and monitoring machines that print or photocopy onto paper
- operating and monitoring machines which bind and emboss books
- setting up and supervising the operation of automatic binding and finishing equipment
- binding full, half and limp-bound books and repairing bindings
- folding, collating and sewing signatures by machine
- operating paper guillotines for pre-press and post-press paper cutting and trimming and programming electronically operated units
- operating systems to insert printed materials into newspapers, magazines and envelopes
- embellishing printed products automatically
- operating photographic and electronic reproduction devices

This unit group includes:

- Braille duplicating machine operator
- Direct lithographic pressman
- Wallpaper printer
- Bookbinding machine operator
- Book embossing machine operator
- Stapling machine operator

This unit group excludes:

- Printers (7322)

8185 Water Treatment and Related Machine Operators

Water treatment and related machine operators monitor and operate various types of plant, such as incinerators, water-treatment plant, pumping stations, refrigeration or heating and ventilation systems.

Tasks include:

- operating and monitoring machinery and equipment which purify and clarify water for human consumption or use and later disposal into natural water systems
- operating and monitoring air and gas compressors
- operating and monitoring pumping stations for transferring liquids, gases, semi-liquids and powdered substances from one location to another
- operating and monitoring refrigeration systems for cool or cold storage, or industrial processes
- operating and monitoring heating and ventilation systems
- operating and monitoring incinerator machinery and equipment which burn garbage or other waste materials
- performing related task

This unit group includes:

- Air-compressor operator
- Pumphouse man
- Water pumpman
- Purifying plant operator (water works)
- Refrigeration system operator
- Incinerator plant operator

8186 **Power Generating Plant Operators**

Power generating plant operators monitor, operate and maintain machinery and equipment which produce electric or other power and control its distribution.

Tasks include:

- operating and monitoring various types of energy generating power plants
- operating and controlling power generating systems and equipment that are used to generate and distribute electrical power
- taking readings from charts, meters and gauges at established intervals, troubleshooting and performing corrective action as necessary
- completing and maintaining station records, logs and reports and communicating with other plant personnel to assess equipment operating status
- cleaning and maintaining equipment in order to prevent equipment failure or deterioration

This unit group includes:

- Electricity generating switchboard operator
- Hydroelectric station operator
- Power generating plant operator
- Rectifier operator (electric current)

8187 **Petroleum and Natural Gas Refining Plant Operators**

Petroleum and natural gas refining plant operators operate and monitor plants which refine, distil and treat petroleum, petroleum-base products and by-products or natural gas.

Tasks include:

- operating and monitoring plant which removes sulphur from petroleum and petroleum-based products, and by-products
- operating and monitoring pumps which circulate petroleum products or water and chemical solutions through refinery
- operating and monitoring stills which distil or refine petroleum products
- operating and monitoring machines which blend petrol with chemicals and other additives
- operating and monitoring machines which refine or otherwise treat natural gases

This unit group includes:

- Paraffin plant operator
- Petroleum refining plant control man
- Acetylene filler
- Liquefied petroleum gas (LPG) filler
- Oxygen filler
- Asphalt blender
- Desulphurisation treater (petroleum refining)

8188 Automated Assembly Line and Industrial Robot Operators

Automated assembly line and industrial robot operators monitor and operate automated or semi-automated assembling lines or load and unload industrial robots and perform related tasks.

Tasks include:

- operating and monitoring automated or partially automated assembling lines
- operating and monitoring industrial robots

This unit group includes:

- Automated assembly line and industrial robot operator

8189 Stationary Plant and Machine Operators Not Elsewhere Classified

Stationary plant and machine operators not elsewhere classified include other operators not classified in Minor Group 818.

Tasks include:

- operating and monitoring machines that fills containers with gases (except compressed or liquefied gas) or liquids
- operating and monitoring machines that bale press paper

This unit group includes:

- Bale press operator
- Rubber baling press operator

This unit group excludes:

- Packing, bottling and labelling machine operators (8183)

8200 Assembly and Quality Check Supervisors and General Foremen

Assembly and quality check supervisors and general foremen supervise the production activities of a distinct unit within an establishment concerned with manufacturing and assembling of electrical and electronic equipment and components and control and coordinate the activities of workers.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- General foreman (electronic equipment manufacturing and repairing)
- Supervisor and general foreman (electrical equipment manufacturing and repairing)

8212 Electrical and Electronic Equipment Assemblers

Electrical and electronic equipment assemblers assemble or modify, according to strictly laid down procedures, components of electrical, electro-mechanical and electronic equipment.

Tasks include:

- assembling component parts and electrical and electronic systems and positioning, aligning and fastening units to assemblies, sub-assemblies, or frames using hand or power tools, soldering and micro-welding equipment
- reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions
- recording production and operational data on specified forms
- operating wire-coiling machines to wind wire coils used in electrical equipment and components such as registers, transformers, armature wires, electric motors and generators

This unit group includes:

- Industrial machine assembler (electrical)
- Radio valve assembler
- Electrical component assembler
- Radio receiver assembler
- Battery assembler

This unit group excludes:

- Other machinery mechanics and repairers (7233)

8213 Quality Checkers and Testers

Quality checkers and testers inspect finished products or parts for compliance with manufacturer's standards.

Tasks include:

- checking and testing finished products or parts for accuracy of assembly
- checking and testing finished products for compliance with weight and other specifications
- checking and testing finished products for defects in finish or operation

This unit group includes:

- Electrical products checker and tester
- Electronic products checker and tester
- Mechanical products checker (quality assurance)
- Mechanical products quality checker

8219 Assemblers Not Elsewhere Classified

Assemblers not elsewhere classified assemble, according to strictly laid down procedures, various products that do not include electronic or electrical components.

Tasks include:

- assembling component parts and positioning, aligning and fastening units to assemblies, sub-assemblies or frames using power tools, soldering and micro-welding equipment

- reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions
- recording production and operational data on specified forms

This unit group includes:

- Doll and stuffed toy maker
- Toy assembler
- Metal products assembler
- Plastic products assembler
- Rubber goods assembler

This unit group excludes:

- Electrical and electronic equipment assemblers (8212)

8300 **Mobile Machinery Supervisors and General Foremen**

Mobile machinery supervisors and general foremen supervise activities of a distinct unit within an establishment concerned with the transport of passengers, material and goods and control the activities of workers in related occupations.

Tasks include:

- interpreting specifications and job orders
- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- coordinating the work of one or more units with other units
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- Mobile machinery supervisor and general foreman

8311 **MRT Train Operators**

MRT train operators drive MRT trains to transport passengers.

Tasks include:

- driving MRT trains
- watching for track hazards, observing signals and indicator gauges
- operating communication systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains

This unit group includes:

- MRT train operator

This unit group excludes:

- Railway brakemen and related workers (8312)
- Tram driver (8331)

8312 Railway Brakers and Related Workers

Railway brakers, signallers and shunters take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards or MRT depots.

Tasks include:

- taking charge of and safeguarding freight train during run
- controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box
- switching and coupling rolling stock in railway yards or MRT depots and sidings in accordance with orders about loading, unloading and make-up of trains
- making up trains for hauling by locomotive or cable and directing their movement along haulage ways
- checking train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run

This unit group includes:

- Railway brakeman/signalman/shunter

8321 Motorcycle Delivery Men

Motorcycle delivery men drive and tend motorcycles to transport materials and goods.

Tasks include:

- driving and tending motorcycle to transport materials and goods
- observing traffic rules and signals
- cleaning and washing vehicle as well as performing maintenance and minor repairs
- keeping a record of journeys
- delivering messages

This unit group includes:

- Motorcycle delivery man
- Motor-tricycle driver (goods)

8322 Car, Taxi and Van Drivers

Car, taxi and van drivers drive and tend motor cars and vans to transport passengers, mail or goods.

Tasks include:

- driving and tending passenger, vans, cars or taxis
- driving and tending cars, vans or small trucks to deliver mail or goods
- assisting passengers with handling of luggage
- collecting fares, payments for deliveries, or documents certifying deliveries
- operating telecommunications equipment to report location and availability and follow directions of control centre
- determining most appropriate route
- assisting physically challenged passengers
- operating equipment to facilitate the loading and unloading of physically challenged passengers

This unit group includes:

- Chauffeur
- Taxi driver
- Van driver

This unit group excludes:

- Bus and tram drivers (8331)

8329 **Car and Light Goods Vehicle Drivers Not Elsewhere Classified**

Car and light goods vehicle drivers not elsewhere classified drive and tend motor cars and vans to transport patients, mail or goods.

Tasks include:

- driving and tending passenger, ambulance or vans
- driving and tending vans or pick-up to deliver passenger, mail or goods
- collecting documents certifying deliveries
- operating telecommunications equipment to report location and availability and follow directions of control centre
- determining most appropriate route

This unit group includes:

- Ambulance driver
- Pick-up driver

This unit group excludes:

- Car, taxi and van drivers (8322)

8331 **Bus and Tram Drivers**

Bus and tram drivers drive and tend buses or tramcars to transport passengers or goods.

Tasks include:

- driving and tending motor bus, trolley bus or motor coach to transport local or long-distance passengers or goods
- driving and tending tramcars transporting passengers
- opening and closing doors before or after passengers board or alight
- assisting passengers with luggage
- controlling lighting and ventilation on buses and trams
- observing traffic to ensure safe progress
- collecting fares or verifying passenger has necessary ticket

This unit group includes:

- Bus driver
- Tram driver

This unit group excludes:

- Car, taxi and van drivers (8322)

8332 Heavy Truck and Lorry Drivers

Heavy truck and lorry drivers drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.

Tasks include:

- driving and tending a heavy motor vehicle, such as a lorry with or without trailer or a dump-truck, to transport goods, liquids or heavy materials over short or long distances
- determining the most appropriate routes
- ensuring goods are stowed and securely covered, to prevent loss and damage
- assisting with or carrying out loading or unloading operations, using various lifting or tipping devices
- carrying out minor maintenance to vehicles and arranges major maintenance and repairs
- estimating weights to comply with load limitations and ensuring the safe distribution of weights

This unit group includes:

- Container truck driver
- Fire engine driver
- Tanker driver

This unit group excludes:

- Lifting truck operators (8344)

8342 Earth Moving and Related Machinery Operators

Earth moving and related machinery operators operate machines to excavate, grade, level, smooth and compact earth or similar materials.

Tasks include:

- operating and monitoring excavating machinery equipped with movable shovel, grab-bucket or dragline bucket to excavate and move earth, rock, sand, gravel or similar materials
- operating and monitoring machinery for digging trenches for sewers, drainage, water, oil, gas or similar pipelines
- operating and monitoring machinery equipped with concave steel blade to move, distribute and level earth, sand and other similar materials
- operating and monitoring equipment to remove sand, gravel and mud from bottom of body of water
- operating and monitoring machines for hammering wooden, concrete or steel piles into ground
- operating and monitoring power roller to compact and smooth layers of materials in making roads, pavements and similar work
- operating and monitoring machines which spread and smooth concrete or bituminous or tar preparations to construct roadways, roads or similar surfaces

This unit group includes:

- Trench digging machine operator
- Drilling machine operator
- Asphalt spreading machine operator
- Pneumatic-drill operator

8343 Crane, Hoist and Related Equipment Operators

Crane, hoist and related equipment operators monitor and operate stationary and mobile cranes and other hoisting equipment.

Tasks include:

- operating and monitoring stationary or mobile cranes by raising and lowering jibs and booms, to lift, move, position or place equipment and materials
- operating and monitoring equipment for hoisting, lowering or raising workers and materials on construction sites
- operating and monitoring machinery used to haul ferry or barge with goods, passengers and vehicles across short stretches of water
- operating and monitoring cranes equipped with dredging attachments to dredge waterways and other areas
- operating and monitoring cranes mounted on boats or barges to lift, move and place equipment and materials

This unit group includes:

- Floating crane operator
- Locomotive crane operator
- Winch operator
- Aerial ropeway operator
- Cable car operator
- Scoop-truck operator

8344 Lifting Truck Operators

Lifting truck operators drive, operate and monitor lifting-truck or similar vehicle to transport, lift and stack pallets with goods.

Tasks include:

- operating and monitoring lifting truck and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, ware-houses, factories and other establishments
- positioning lifting devices under, over or around loaded pallets, skids and boxes and securing material or products for transport to designated areas
- inspecting equipment to identify wear and damage
- performing routine maintenance on vehicles and equipment
- keeping records of work undertaken and breakdown of lifting truck and similar equipment

This unit group includes:

- Fork lift truck operator
- Industrial truck operator
- Lifting truck operator

8349 Mobile Machinery Operators Not Elsewhere Classified

Mobile machinery operators drive, operate and monitor mobile machinery for agriculture, sweeping and farming.

Tasks include:

- operating and monitoring mobile machinery to sweep the roads
- operating and monitoring machinery for agriculture or milking animals

This unit group includes:

- Mechanical sweeper driver
- Agricultural mobile machinery operator
- Pedestrian tractor operator
- Threshing machine operator
- Telescopic handler operator

8350 Ships' Deck Crew and Related Workers

Ships' deck crew and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.

Tasks include:

- standing look-out watches at sea and when entering or leaving harbour or other narrow waters
- steering ship according to instructions
- handling ropes and wires and operates mooring equipment
- maintaining and in some cases, operating ship's equipment, cargo gear, rigging, life-saving and fire-fighting appliances
- performing deck and hull cleaning, scraping, painting and other maintenance duties as required
- breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear

This unit group includes:

- Coxswain
- Helmsman
- Kemudi
- Boatswain
- Lighterman
- Taikong
- Bargeman
- Serang
- Lightshipman

9100 Cleaning Supervisors

Cleaning supervisors supervise the activities of a unit performing various tasks in private households, hotels, offices, hospitals and other establishments, as well as in aircrafts, trains, coaches, trams and similar vehicles, in order to keep the interiors and fixtures clean.

Tasks include:

- determining sequence of operations and use of equipment
- estimating manpower requirements
- assigning duties to workers
- analysing and resolving work problems
- recommending or initiating personnel action
- supervising co-workers and helping them in their work

This unit group includes:

- Cleaning supervisor

9112 Cleaners and Helpers in Hotels and Related Establishments

Cleaners and helpers in hotels and related establishments perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels and related establishments.

Tasks include:

- sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings
- making beds, cleaning bathrooms, supplying towels, soap and related items
- cleaning kitchens and generally helping with kitchen work, including dishwashing
- picking up rubbish, emptying garbage containers and taking contents to waste areas for removal

This unit group includes:

- Chambermaid
- Hotel cleaner

This unit group excludes:

- Officer cleaner (9113)
- Kitchen assistant (9410)
- Dishwasher (9410)

9113 Cleaners in Offices and Other Establishments

Cleaners and helpers in offices and other establishments perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of offices and other establishments.

Tasks include:

- sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings
- cleaning pantries/kitchens and generally helping with kitchen-related work, including dishwashing

- picking up rubbish, emptying garbage containers and taking contents to waste areas for removal

This unit group includes:

- Office cleaner
- Factory cleaner
- MRT station cleaner

This unit group excludes:

- Window cleaner (9123)
- Kitchen assistant (9410)
- Dishwasher (9410)
- Building caretaker (9626)

9121 **Hand Launderers and Pressers**

Hand launderers and pressers launder, press or dry-clean garments, linen and other textiles by hand.

Tasks include:

- laundering and pressing linen, clothing, fabrics and similar articles by hand in a laundry or other establishment
- cleaning, by hand and with chemical solutions, clothing, fabrics, leather goods and similar articles, in a dry-cleaning or other establishment
- replacing buttons and making minor repairs
- placing articles on shelves and hanging articles for delivery and collection

This unit group includes:

- Ironer (laundry service)
- Washer (laundry service)

This unit group excludes:

- Laundry press machine operator (8159)

9122 **Vehicle Cleaners**

Vehicle cleaners wash, clean and polish motor vehicles such as cars and taxis.

Tasks include:

- cleaning, washing and polishing cars and other vehicles, by hand or using hand-held power tools
- vacuuming vehicle interiors and dry cleaning carpets and upholstery
- applying cleaning agents to remove stains from vehicle exteriors and interiors
- washing tyres and wheel arches and blackening tyres
- washing and polishing vehicle windows
- emptying and cleaning compartments in vehicles

This unit group includes:

- Car cleaner
- Car polisher

This unit group excludes:

- Ship and tank cleaner (9129)
- Railway carriage cleaner (9129)

9123 Window Cleaners

Window cleaners wash and polish windows and other glass fittings.

Tasks include:

- washing windows or other glass surfaces with water or various solutions, drying and polishing them
- using ladders, swinging scaffolds, bosun's chairs, hydraulic bucket trucks and other equipment to reach and clean windows in multi-storey buildings
- selecting appropriate cleaning or polishing implement

This unit group includes:

- Window cleaner

9129 Cleaning Workers Not Elsewhere Classified

This group includes other cleaning workers who clean surface, materials and objects, such as walls, swimming pools and non-motor vehicles like ships and aircraft, using specialised cleaning equipment and chemicals.

Tasks include:

- cleaning carpets and upholstered furniture using cleaning machines and their attachments
- selecting and applying cleaning agents to remove stains from carpets, furniture and walls
- cleaning stone walls, metal surfaces and fascias using high pressure water cleaners and solvents
- applying chemicals and high pressure cleaning methods to remove micro-organisms from water and filtration systems and using wet vacuums and other suction equipment to remove scale, accumulated dirt and other deposits from swimming pools, cooling tower components and drains

This unit group includes:

- Ship and tank cleaner
- Railway carriage cleaner

This unit group excludes:

- Car cleaner (9122)

9130 Domestic Helpers and Cleaners

Domestic helpers and cleaners sweep, vacuum-clean, wash and polish, take care of household linen, purchase household supplies, prepare food, serve meals and perform various other domestic duties.

Tasks include:

- sweeping, vacuum-cleaning, polishing and washing floors and furniture, or washing windows and other fixtures
- washing, ironing and mending linen and other textiles
- washing dishes
- helping with preparation, cooking and serving of meals and refreshments
- purchasing food and various other household supplies

- cleaning, disinfecting and deodorising kitchens, bathrooms and toilets
- cleaning windows and other glass surfaces

This unit group includes:

- Domestic worker
- Amah (general)

This unit group excludes:

- Chambermaid (9112)
- Office cleaner (9113)

9214 **Park and Garden Maintenance Workers**

Park and garden maintenance workers perform simple and routine tasks in operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques.

Tasks include:

- loading, unloading and moving supplies, produce and equipment
- preparing garden sites and plots using hand tools and simple machines
- assisting with planting and transplanting flowers, shrubs, trees and lawns
- maintaining gardens by watering, weeding and mowing lawns
- cleaning gardens and removing rubbish
- assisting with propagating, planting and potting seeds, bulbs and cuttings
- tending plants by hand watering and weeding
- harvesting and packaging plants for sale and transport
- performing minor repairs on fixtures, buildings and fences

This unit group includes:

- Gardening labourer
- Tree cutter
- Turf layer

This unit group excludes:

- Farm labourer (9219)

9219 **Agricultural, Fishery Labourers and Related Workers Not Elsewhere Classified**

This unit group covers agricultural and related workers performing simple and routine farming and fishing tasks that are outside the scope of those classified in Unit Group 9214.

Tasks include:

- digging, shovelling, loading, unloading, stacking, raking, pitching
- spreading manure or fertilisers
- watering and weeding
- grass cutting and tree pruning
- picking fruits, vegetables and various plants
- feeding animals and cleaning animal quarters
- cleaning undergrowth in forest stands
- clearing sea-bed and performing other simple tasks connected with aquatic cultivation

This unit group includes:

- Farm labourer

9310 **Civil Engineering and Building Construction Labourers**

Civil engineering and building construction labourers perform routine tasks in connection with demolition works as well as the construction of buildings and civil engineering projects such as roads, railways and dams.

Tasks include:

- digging and filling holes and trenches using hand-held tools
- shovelling and spreading gravel and related materials
- trimming and cutting rocks and concrete and bitumen surfaces using jack-hammers
- loading and unloading construction materials, excavated material and equipment and transporting them around construction sites using wheelbarrows and hand trucks
- cleaning worksites and removing obstructions
- cleaning used building bricks and doing other simple work on demolition sites
- mixing, pouring and spreading materials such as concrete, plaster and mortar trucks
- cleaning work sites and removing obstructions

This unit group includes:

- Tent erector
- Ditch digger
- Labourer (construction)

9320 **Manufacturing Labourers and Related Workers**

Manufacturing labourers not elsewhere classified assist the work of machine operators and assemblers and perform a variety of manual tasks in manufacturing, including packing and labelling finished products.

Tasks include:

- weighing, wrapping, sealing and packing material and various products by hand filling bottles, cans, boxes, bags and other containers with products by hand
- labelling products, packages and various containers by hand
- conveying goods, material, equipment etc to work area, removing finished pieces
- loading and unloading vehicles, trucks and trolleys
- clearing machine blockages, cleaning machinery, equipment and tools
- carrying out manual sorting of products or components

This unit group includes:

- Hand wrapper
- Labourer (manufacturing)
- Sheet rubber maker

9331 Hand and Pedal Vehicle Drivers

Hand or pedal vehicle drivers propel cycles and similar vehicles to transport passengers or goods.

Tasks include:

- loading or unloading goods, or assisting passengers in getting on or off a vehicle
- moving vehicle in the desired direction with due regard to other traffic and traffic regulations
- inspecting vehicle components to identify wear and damage
- maintaining vehicle, making minor repairs and installing replacement parts
- collecting fares or charges

This unit group includes:

- Trishaw man
- Pedal vehicle driver

9333 Material and Freight Handling Workers

Material and freight handlers carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

Tasks include:

- packing office or household furniture, machines, appliances and related goods to be transported from one place to another
- carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships, or aircraft
- loading and unloading grain, coal, sand and similar goods by placing them on conveyor-belts, pipes etc
- connecting hoses between main shore installation pipes and tanks of barges, tankers and other ships to load and unload petroleum, liquefied gases and other liquids
- carrying and stacking goods in warehouses and similar establishments
- sorting cargo prior to loading and unloading

This unit group includes:

- Ship loader
- Lorry loader
- Furniture mover

9410 Food Preparation and Kitchen Assistants

Food preparation and kitchen assistants clear tables, clean kitchen areas, wash dishes, preparing ingredients and perform other duties to assist workers who prepare or serve food and beverages. They may take orders from customers and serve at counters or tables.

Tasks include:

- cleaning kitchens, food preparation areas and service areas
- assisting cooks and chefs in preparation of food by washing, peeling, chopping, cutting up, measuring and mixing ingredients
- assembling dishes for service
- unpacking and storing supplies in refrigerators, cupboards and other storage areas

- washing dishes and cooking utensils and putting them away
- checking, transferring, weighing and storing supplies in refrigerators, cupboards and other storage areas
- preparing, cooking, toasting and heating simple food items

This unit group includes:

- Kitchen assistant
- Fast food preparer
- Plate collector

This unit group excludes:

- Cook (5120)

9611 **Garbage and Recycling Collectors**

Garbage and recycling collectors identify, collect and sort rubbish and discarded items for recycling from buildings, yards, streets and other places.

Tasks include:

- collecting rubbish and locating it into bins and garbage and recycling trucks
- sorting cardboard, paper, glass, plastic, aluminium or other recyclable materials by type and placing recyclable items and materials in designated compartments and containers for storage or transportation
- riding on or in garbage and recycling trucks
- lifting garbage bins and emptying contents into trucks and larger containers
- unloading garbage and recycling trucks
- identifying and setting aside items of furniture, equipment, machinery, or components that are suitable for repair or re-use
- selling recyclable or reusable materials

This unit group includes:

- Garbage disposal worker
- Refuse sorter

This unit group excludes:

- Park sweeper (9613)

9613 **Sweepers and Related Workers**

Sweepers and related workers sweep and clean streets, parks, airports, stations and other public places.

Tasks include:

- sweeping streets, parks, airports, stations and similar public places
- beating dust out of carpets by using a carpet-beater
- cleaning rubbish, leaves and snow from driveways and grounds

This unit group includes:

- Street sweeper (except driver, mechanical sweeper)
- Park sweeper

This unit group excludes:

- Garbage disposal worker (9611)

9621 Porters and Related Workers

Porters and related workers carry and deliver messages, packages and other items within an establishment or between establishments, to households and elsewhere, or carry luggage especially at hotels, stations and airports.

Tasks include:

- delivering messages, packages and other items within an establishment or between establishments, or elsewhere
- performing the duties of a post-runner
- delivering various goods to and from enterprises, shops, households and other places
- carrying and delivering luggage at hotels, stations, airports, and elsewhere
- receiving and marking baggage by completing and attaching claim checks
- planning and following the most efficient route
- sorting items to be delivered according to the delivery route

This unit group includes:

- Bell captain
- Bellboy
- Porter railway

9625 Attendants

Attendants look after and maintain parking places and health and sanitary places. They may also perform other general duties such as issuing and collecting parking or admission tickets, collecting fees and delivering supplies and equipment.

Tasks include:

- recording or checking parking time and collecting parking fees
- directing vehicle drivers to parking spaces
- patrolling parking areas in order to prevent vehicle damage and vehicle property thefts
- delivering laboratory supplies, equipment or specimens to designated work areas and cleaning laboratory equipment
- moving patients to treatment units and distributing dressing packs, treatment trays and other supplies

This unit group includes:

- Library attendant
- Hospital attendant
- Car park attendant

This unit group excludes

- Building caretaker (9626)

9626 Watchmen and Related Workers

Watchmen and related workers take care of apartment houses, hotels, offices, churches and other buildings and maintain them and associated grounds in a clean and orderly condition.

Tasks include:

- participating in cleaning, simple repairs and maintenance of building interiors
- regulating conduct of tenants and visitors in matters such as noise abatement or misuse of property
- providing small services to absent tenants such as accepting deliveries on their behalf or providing requested information to callers
- notifying management and owners of buildings of the need for major repairs
- patrolling buildings to ensure security is maintained
- filling out registration forms and providing tenants with copies of rules

This unit group includes:

- Building caretaker
- Doorman
- Lighthouse keeper

9629 Other Elementary Workers

This unit group covers elementary workers not classified elsewhere in Major Group 9 „Cleaners, labourers and related workers“. For instance, this group includes those that distribute leaflets and newspapers to households and at designated locations, meter readers and grave diggers.

Tasks include:

- handing out leaflets and free newspapers at designated locations
- distributing newspapers to households
- receiving immediate payment or collecting money from vending machines, parking meters or similar coin-boxes
- reading electricity, gas or water meters and recording consumption
- verifying readings in cases where consumption appears to be abnormal, and record possible reasons for fluctuations
- inspecting meters for unauthorised connections, defects, and damage such as broken seals

This unit group includes:

- Leaflet and newspaper distributor
- Meter reader
- Grave digger

Appendix:
Comparison between
SSOC 2010 and SSOC 2005

1 LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

SSOC 2010		SSOC 2005	
11	LEGISLATORS, SENIOR OFFICIALS AND AND CHIEF EXECUTIVES	11	LEGISLATORS AND SENIOR OFFICIALS
111	LEGISLATORS AND SENIOR OFFICIALS	111	LEGISLATORS
1111	Legislators	1110	Legislators
1112	Senior Government and Statutory Board Officials	112	SENIOR GOVERNMENT AND STATUTORY BOARD OFFICIALS
1114	Senior Officials of Political Party Organisations	1120	Senior Government and Statutory Board Officials
1115	Senior Officials Of Employers', Workers' and Other Economic-Interest Organisations	113	SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS
1116	Senior Officials of Humanitarian and Other Special-Interest Organisations	1131	Senior Officials Of Political Party Organisations
112	MANAGING DIRECTORS, CHIEF EXECUTIVES AND GENERAL MANAGERS	1132	Senior Officials Of Employers', Workers' and Other Economic-Interest Organisations
1120	Managing Directors, Chief Executives and General Managers	1133	Senior Officials Of Humanitarian and Other Special-Interest Organisations
12	ADMINISTRATIVE AND COMMERCIAL MANAGERS	12	CORPORATE MANAGERS
121	BUSINESS SERVICES AND ADMINISTRATION MANAGERS	121	COMPANY DIRECTORS
1211	Finance and Administration Managers	1210	Company Directors
1212	Human Resource Managers	122	GENERAL MANAGERS
1213	Policy and Planning Managers	1220	General Managers
1219	Business Services and Administration Managers Not Elsewhere Classified		

SSOC 2010		SSOC 2005	
122	SALES, MARKETING, DEVELOPMENT AND CUSTOMER SERVICE MANAGERS	123	DEPARTMENT MANAGERS
1221	Sales, Marketing and Business Development Managers	1231	Production, Operations and Distribution Managers
1222	Advertising and Public Relations Managers	1232	Sales and Marketing Managers
1223	Research and Development Managers	1233	Finance and Administration Managers
1224	Customer Service and Call Centre Managers	1234	Personnel and Industrial Relations Managers
		1235	Advertising and Public Relations Managers
		1236	Research and Development Managers
		1239	Department Managers Not Elsewhere Classified
13	PRODUCTION AND SPECIALISED SERVICES MANAGERS		
131	PRODUCTION MANAGERS IN AGRICULTURE AND FISHERIES	129	MANAGERS NOT ELSEWHERE CLASSIFIED
1310	Production Managers in Agriculture and Fisheries	1290	Managers Not Elsewhere Classified
132	MANUFACTURING, MINING, CONSTRUCTION AND DISTRIBUTION MANAGERS		
1321	Manufacturing Managers		
1323	Construction Managers		
1324	Transport, Supply, Distribution and Related Managers		
1329	Production and Operations Managers Not Elsewhere Classified		
133	INFORMATION AND COMMUNICATIONS TECHNOLOGY SERVICE MANAGERS		
1330	Information and Communications Technology Service Managers		
134	PROFESSIONAL, FINANCIAL, COMMUNITY AND SOCIAL SERVICES MANAGERS		
1341	Child Care Services Managers		
1342	Health Services Managers		

SSOC 2010		SSOC 2005	
1343	Aged Care Services Managers		
1344	Social Welfare Managers		
1345	Education Managers		
1346	Financial and Insurance Services Managers		
1349	Professional, Financial, Community and Social Services Managers Not Elsewhere Classified		
14	HOSPITALITY, RETAIL AND RELATED SERVICES MANAGERS		
141	HOTEL AND FOOD AND BEVERAGES SERVICES MANAGERS		
1411	Hotel Operations and Lodging Services Managers		
1412	Food and Beverages Services Managers		
142	RETAIL AND WHOLESALE TRADE MANAGERS		
1420	Retail and Wholesale Trade Managers		
143	OTHER SERVICES MANAGERS		
1431	Sports Centre Managers		
1432	Recreation Centre Managers		
1433	Arts and Cultural Centre Managers		
1439	Other Services Managers Not Elsewhere Classified		
		13	WORKING PROPRIETORS
		130	WORKING PROPRIETORS
		1301	Working Proprietors (Wholesale and Retail Trade)
		1302	Working Proprietors (Lodging and Catering Services)
		1309	Working Proprietors Not Elsewhere Classified

2 PROFESSIONALS

PROFESSIONALS

SSOC 2010		SSOC 2005	
21	SCIENCE AND ENGINEERING PROFESSIONALS	21	PHYSICAL, MATHEMATICAL AND ENGINEERING SCIENCE PROFESSIONALS
211	PHYSICAL AND EARTH SCIENCE PROFESSIONALS	211	PHYSICAL SCIENCE PROFESSIONALS
2111	Physicists and Astronomers	2111	Physicists
2112	Meteorologists	2112	Meteorologists
2113	Chemists	2113	Chemists
2114	Geologists, Geophysicists and Other Physical Science Professionals	2119	Physical Science Professionals Not Elsewhere Classified
212	MATHEMATICIANS, ACTUARIES AND STATISTICIANS	212	MATHEMATICIANS, STATISTICIANS AND RELATED PROFESSIONALS
2121	Mathematicians, Operations Research Analysts and Actuaries	2121	Mathematicians, Operations Research Analysts and Actuaries
2122	Statisticians	2122	Statisticians and Social Research Analysts
213	LIFE SCIENCE PROFESSIONALS	213	INFORMATION TECHNOLOGY PROFESSIONALS
2131	Biologists, Botanists, Zoologists and Related Professionals	2131	Information Technology Managers
2132	Farming, Forestry and Fisheries Advisers	2132	Information Technology Designers and Analysts
2133	Environmental Protection and Related Professionals	2133	Programmers
2134	Pharmacologists and Related Professionals	2134	Network, Systems and Database Administrators
		2139	Information Technology Professionals Not Elsewhere Classified
214	ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)	214	ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
2141	Industrial and Production Engineers	2141	Architects and Town Planners
2142	Civil Engineers	2142	Civil Engineers
2143	Environmental Engineers	2143	Electrical Engineers
2144	Mechanical Engineers	2144	Electronics Engineers
2145	Chemical Engineers	2145	Mechanical Engineers
2146	Mining Engineers, Metallurgists and Related Professionals	2146	Chemical Engineers
2149	Engineering Professionals Not Elsewhere Classified		

SSOC 2010			SSOC 2005		
215		ELECTROTECHNOLOGY ENGINEERS	2147		Manufacturing Engineers
	2151	Electrical Engineers	2148		Surveyors
	2152	Electronics Engineers	2149		Architects, Engineers and Related Professionals
	2153	Telecommunications Engineers			Not Elsewhere Classified
216		ARCHITECTS, PLANNERS AND SURVEYORS			
	2161	Building Architects			
	2162	Landscape Architects			
	2164	Town and Related Planners			
	2165	Surveyors and Cartographers			
22		HEALTH PROFESSIONALS	22		LIFE SCIENCE AND HEALTH PROFESSIONALS
221		MEDICAL DOCTORS	221		LIFE SCIENCE PROFESSIONALS
	2211	Generalist Medical Practitioners		2211	Biologists, Botanists, Zoologists and Related Professionals
	2212	Specialist Medical Practitioners (Medical)		2212	Pharmacologists, Pathologists and Related Professionals
	2213	Specialist Medical Practitioners (Surgical)		2213	Agronomists and Related Professionals
	2214	Specialist Medical Practitioners (Other Specialisations)			
223		TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS	222		HEALTH PROFESSIONALS
	2230	Traditional and Complementary Medicine Professionals		2221	Medical Doctors
				2222	Dentists
				2223	Veterinarians
				2224	Pharmacists
225		VETERINARIANS		2229	Health Professionals Not Elsewhere Classified
	2250	Veterinarians			

SSOC 2010			SSOC 2005		
226		OTHER HEALTH PROFESSIONALS			
	2261	Dentists			
	2262	Pharmacists			
	2263	Environmental and Occupational Health and Hygiene Professionals			
	2269	Other Health Professionals Not Elsewhere Classified			
23		TEACHING PROFESSIONALS	23		TEACHING PROFESSIONALS
231		UNIVERSITY, POLYTECHNIC AND HIGHER EDUCATION TEACHERS	231		UNIVERSITY, POLYTECHNIC AND OTHER HIGHER EDUCATION TEACHERS
	2310	University, Polytechnic and Higher Education Teachers		2310	University, Polytechnic and Other Higher Education Teachers
232		VOCATIONAL EDUCATION TEACHERS	232		UPPER SECONDARY AND SECONDARY EDUCATION TEACHERS
	2320	Vocational Education Teachers		2320	Upper Secondary and Secondary Education Teachers
233		SECONDARY EDUCATION TEACHERS	233		PRIMARY EDUCATION TEACHERS
	2330	Secondary Education Teachers		2330	Primary Education Teachers
234		PRIMARY EDUCATION TEACHERS	234		SPECIAL EDUCATION TEACHERS
	2340	Primary School Teachers		2340	Special Education Teachers
235		OTHER TEACHING PROFESSIONALS	239		TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED
	2351	Education Methods Specialists		2391	School Principals
	2352	Special Education Teachers		2392	Education Methods Specialists
	2359	Other Teaching Professionals Not Elsewhere Classified		2399	Other Teaching Professionals Not Elsewhere Classified

SSOC 2010			SSOC 2005		
24	BUSINESS AND ADMINISTRATION PROFESSIONALS		24	BUSINESS PROFESSIONALS	
241	FINANCE PROFESSIONALS		241	ACCOUNTANTS	
	2411	Accountants		2410	Accountants
	2412	Financial and Investment Advisers			
	2413	Financial Analysts and Related Professionals	242	FINANCIAL ANALYSTS AND RELATED PROFESSIONALS	
				2420	Financial Analysts and Related Professionals
242	ADMINISTRATION PROFESSIONALS		249	BUSINESS PROFESSIONALS NOT ELSEWHERE CLASSIFIED	
	2421	Management and Business Consultants		2490	Business Professionals Not Elsewhere Classified
	2422	Policy Administration Professionals			
	2423	Human Resource Professionals			
243	MARKETING AND PUBLIC RELATIONS PROFESSIONALS				
	2431	Advertising and Marketing Professionals			
	2432	Public Relations Professionals			
25	INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS				
251	SOFTWARE AND APPLICATIONS DEVELOPERS AND ANALYSTS			See sub-major group 21 'SCIENCE AND ENGINEERING PROFESSIONALS'.	
	2511	Systems Analysts			
	2512	Software, Web and Multimedia Developers			
	2514	Applications and Systems Programmers			
	2515	Information Technology Testing and Quality Assurance Professionals			
	2516	Information Technology Project Managers			
	2519	Software and Applications Developers and Analysts Not Elsewhere Classified			

SSOC 2010			SSOC 2005		
252		DATABASE AND NETWORK PROFESSIONALS			
	2521	Database Designers and Administrators			
	2522	Network and Computer Systems Administrators			
	2523	Computer Network Professionals			
	2524	Information Technology Security Specialists			
	2529	Database and Network Professionals Not Elsewhere Classified			
26		LEGAL, SOCIAL AND CULTURAL PROFESSIONALS	25		LEGAL PROFESSIONALS
261		LEGAL PROFESSIONALS	250		LEGAL PROFESSIONALS
	2611	Lawyers		2501	Lawyers
	2612	Judges		2502	Judges
			29		PROFESSIONALS NOT ELSEWHERE CLASSIFIED
262		LIBRARIANS, ARCHIVISTS AND CURATORS	291		ARCHIVISTS, LIBRARIANS AND RELATED PROFESSIONALS
	2621	Archivists, Curators and Conservators		2911	Archivists, Curators and Conservators
	2622	Librarians and Related Information Professionals		2912	Librarians and Related Professionals
263		SOCIAL SCIENCE PROFESSIONALS	292		SOCIAL WORK PROFESSIONALS AND OTHER SOCIAL SCIENCE AND RELATED PROFESSIONALS
	2631	Economists		2921	Economists
	2632	Sociologists, Anthropologists and Related Professionals		2922	Sociologists and Anthropologists
	2633	Historians, Political Scientists and Other Social Science Professionals		2923	Social Work Professionals
	2634	Psychologists		2929	Other Social Science and Related Professionals Not Elsewhere Classified
	2635	Social Work and Counselling Professionals			

SSOC 2010			SSOC 2005		
264		AUTHORS, JOURNALISTS AND EDITORS	293		WRITERS AND CREATIVE OR PERFORMING ARTISTS
	2641	Authors and Related Writers		2930	Journalists
	2642	Journalists		2931	Authors and Other Writers
265		CREATIVE AND PERFORMING ARTISTS		2932	Editors (Newspapers And Periodicals)
	2651	Visual Artists		2933	Other Editors
	2652	Musicians, Composers and Singers		2934	Sculptors, Painters and Related Artists
	2653	Dancers and Choreographers		2935	Instrumentalists
	2654	Film, Stage and Related Directors and Producers		2936	Music Instructors
	2655	Actors		2937	Other Musicians, Composers and Singers
				2938	Choreographers and Dancers
				2939	Film, Stage And Related Producers, Directors and Actors
29		OTHER PROFESSIONALS NOT ELSEWHERE CLASSIFIED			
290		OTHER PROFESSIONALS NOT ELSEWHERE CLASSIFIED	294		RELIGIOUS PROFESSIONALS
	2901	Religious Professionals		2940	Religious Professionals
	2909	Other Professionals Not Elsewhere Classified	299		OTHER PROFESSIONALS NOT ELSEWHERE CLASSIFIED
				2990	Other Professionals Not Elsewhere Classified

3 ASSOCIATE PROFESSIONALS AND TECHNICIANS

ASSOCIATE PROFESSIONALS AND TECHNICIANS

SSOC 2010			SSOC 2005		
31	PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS		31	PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS	
310	3100	ASSISTANT ENGINEERS Assistant Engineers	310	3100	ASSISTANT ENGINEERS Assistant Engineers
311		PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS	311		CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS
	3111	Chemical and Physical Science Technicians		3110	Chemical and Physical Science Technicians
	3112	Civil Engineering Technicians			
	3113	Electrical Engineering Technicians	312		BUILDING AND ENGINEERING TECHNICIANS
	3114	Electronics Engineering Technicians		3121	Civil Engineering and Related Technicians
	3115	Mechanical Engineering Technicians		3122	Electrical Engineering Technicians
	3116	Chemical Engineering Technicians		3123	Electronics Engineering Technicians
	3117	Manufacturing Engineering Technicians		3124	Mechanical Engineering Technicians
	3118	Draughtsmen		3125	Chemical Engineering Technicians
	3119	Physical and Engineering Science Technicians Not Elsewhere Classified		3126	Manufacturing Engineering Technicians
				3127	Draughtsmen
				3129	Building and Engineering Technicians Not Elsewhere Classified
314		LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS	313		COMPUTER SYSTEMS OPERATORS
	3141	Life Science Technicians (Except Medical)		3130	Computer Systems Operators
	3142	Agronomy, Horticultural and Farming Technicians	314		OPTICAL AND ELECTRONIC EQUIPMENT OPERATORS
				3141	Photographers and Image And Sound Recording Equipment Operators
				3142	Telecommunications Equipment Operators
				3149	Optical And Electronic Equipment Operators Not Elsewhere Classified

SSOC 2010			SSOC 2005		
315		SHIP AND AIRCRAFT CONTROLLERS AND TECHNICIANS	315		TRANSPORT CONTROLLERS, TECHNICIANS AND SUPERVISORS
	3151	Ships' Engineers		3151	Ships' Engineers
	3152	Ships' Deck Officers and Pilots		3152	Ships' Deck Officers and Pilots
	3153	Aircraft Pilots and Related Associate Professionals		3153	Aircraft Pilots and Related Associate Professionals
	3154	Air Traffic Controllers		3154	Air Traffic Controllers
	3156	Sea Traffic Controllers		3155	Sea Traffic Controllers
	3157	Transport Operations Supervisors		3156	Transport Operations Supervisors
	3159	Transport Controllers and Related Workers Not Elsewhere Classified		3159	Transport Controllers and Technicians Not Elsewhere Classified
316		PREMISES AND PARKS OFFICERS			
	3160	Premises and Parks Officers			
317		BUILDING, QUALITY AND SAFETY INSPECTORS	316		BUILDING, SAFETY AND HEALTH INSPECTORS
	3171	Building and Fire Inspectors		3161	Building and Fire Inspectors
	3172	Quality and Safety Inspectors		3162	Environment Health and Safety Inspectors (Vehicles, Processes and Products)
32		HEALTH ASSOCIATE PROFESSIONALS	32		LIFE SCIENCE AND HEALTH ASSOCIATE PROFESSIONALS
321		MEDICAL AND PHARMACEUTICAL TECHNICIANS	321		LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS
	3211	Medical Imaging and Therapeutic Equipment Technicians		3211	Life Science Technicians
	3212	Medical and Pathology Laboratory Technicians		3212	Agronomy and Related Technicians
	3213	Pharmaceutical Technicians		3213	Farming and Related Technicians
	3214	Medical and Dental Prosthetic Technicians			

SSOC 2010			SSOC 2005		
322	3220	NURSING ASSOCIATE PROFESSIONALS Nursing Associate Professionals	322/323	3221	HEALTH ASSOCIATE PROFESSIONALS Optometrists and Opticians
323	3230	TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS Traditional and Complementary Medicine Associate Professionals		3222	Physiotherapists
				3223	Occupational Therapists
				3224	Other Physical Therapists and Related Associate Professionals
				3225	Dieticians and Public Health Nutritionists
				3226	Nurses and Midwives
				3227	Dental Nurses
324	3240	VETERINARY TECHNICIANS AND ASSISTANTS Veterinary Technicians and Assistants		3228	Veterinary Assistants
				3230	Medical Imaging and Related Associate Professionals
				3231	Health Associate Professionals Not Elsewhere Classified
325	3251	OTHER HEALTH ASSOCIATE PROFESSIONALS Dental Nurses and Therapists			
	3252	Dietitians and Nutritionists			
	3253	Audiologists and Speech Therapists			
	3254	Optometrists and Opticians			
	3255	Physiotherapists and Related Associate Professionals			
	3256	Occupational Therapists			
	3257	Environmental and Occupational Health Inspectors			
	3259	Health Associate Professionals Not Elsewhere Classified			

SSOC 2010		SSOC 2005	
33	BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS	34	FINANCE, SALES AND RELATED BUSINESS ASSOCIATE PROFESSIONALS
331	FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS	341/342	FINANCE AND SALES ASSOCIATE PROFESSIONALS
3311	Securities and Finance Dealers and Brokers	3411	Assistant Accountants
3312	Credit and Loans Officers	3412	Securities Dealers and Brokers
3313	Accounting Associate Professionals	3413	Foreign Exchange Dealers and Brokers
3314	Statistical, Mathematical and Actuarial Associate Professionals	3414	Financial Futures Dealers and Brokers
3315	Valuers and Loss Assessors	3415	Commodities Futures Brokers
		3416	Other Finance Dealers and Brokers
		3417	Insurance Sales Agents and Brokers
332	SALES AND RELATED ASSOCIATE PROFESSIONALS	3418	Insurance Underwriters
3321	Insurance Representatives	3419	Other Insurance Representatives
3322	Commercial and Marketing Sales Representatives	3420	Real Estate Agents
3323	Buyers and Purchasing Agents	3421	Technical and Commercial Sales Representatives
3324	Trade and Ship Brokers	3422	Buyers and Purchasing Agents
3329	Sales and Related Associate Professionals Not Elsewhere Classified	3423	Valuers and Auctioneers
		3424	Finance and Sales Associate Professionals Not Elsewhere Classified
333	BUSINESS SERVICES AGENTS	343	BUSINESS SERVICE AGENTS AND TRADE BROKERS
3331	Shipping, Clearing and Forwarding Agents	3430	Business Service Agents and Trade Brokers
3332	Conference and Event Planners		
3333	Employment Agents and Labour Contractors		
3334	Real Estate Agents		
3339	Business Services Agents Not Elsewhere Classified		
334	ADMINISTRATIVE ASSOCIATE PROFESSIONALS	39	ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED
3345	Public Relations Associate Professionals	391	GOVERNMENT ASSOCIATE PROFESSIONALS
3346	Human Resource Associate Professionals	3911	Police Inspectors and Customs and Related Officers
3349	Administrative and Related Associate Professionals Not Elsewhere Classified	3919	Other Government Associate Professionals Not Elsewhere Classified

SSOC 2010			SSOC 2005		
335		GOVERNMENT ASSOCIATE PROFESSIONALS	392		STATISTICAL, ADMINISTRATIVE AND RELATED ASSOCIATE PROFESSIONALS
	3351	Customs and Immigration Officers		3921	Statistical, Mathematical and Related Associate Professionals
	3355	Police Inspectors		3922	Administrative and Related Associate Professionals
	3359	Government Associate Professionals Not Elsewhere Classified			
34		LEGAL, SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS			
341		LEGAL AND SOCIAL ASSOCIATE PROFESSIONALS	393		SOCIAL WORK ASSOCIATE PROFESSIONALS
	3411	Legal Associate Professionals		3930	Social Work Associate Professionals
	3412	Social Work Associate Professionals			
342		SPORTS AND FITNESS WORKERS	394		TRANSLATORS AND INTERPRETERS
	3421	Athletes and Sportsmen		3940	Translators
	3422	Sports Coaches, Instructors, Officials and Other Related Associate Professionals		3941	Interpreters
343		ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS	395		ARTISTIC, ENTERTAINMENT AND SPORTS ASSOCIATE PROFESSIONALS
	3431	Photographers		3950	Radio and Television Presenters and Related Associate Professionals
	3432	Interior Designers and Decorators		3951	Interior Designers
	3433	Gallery, Museum and Library Technicians		3952	Fashion and Garment Designers
	3435	Fashion, Garment and Product Designers		3953	Other Decorators and Commercial Designers
	3436	Graphic and Multimedia Designers and Artists		3954	Clowns, Magicians, Acrobats and Related Associate Professionals
	3439	Artistic and Cultural Associate Professionals Not Elsewhere Classified		3955	Professional Sportsmen
				3956	Sports Coaches

SSOC 2010			SSOC 2005	
344		PERFORMING ASSOCIATE PROFESSIONALS	3957	Physical Fitness Instructors
	3441	Radio and Television Presenters and Related Associate Professionals	3958	Other Athletes and Related Associate Professionals
	3442	Clowns, Magicians, Acrobats and Related Associate Professionals	3959	Animal/Bird Keepers and Trainers
			396	NON-ORDAINED RELIGIOUS ASSOCIATE PROFESSIONALS
			3960	Non-Ordained Religious Associate Professionals
			399	OTHER ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED
			3990	Other Associate Professionals Not Elsewhere Classified
35	INFORMATION AND COMMUNICATIONS TECHNICIANS			
351		INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATORS AND TECHNICIANS		See sub-major group 31 'PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS'.
	3511	Computer Systems Operators		
	3512	Computer Technicians		
	3514	Website Administrators		
352		TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS AND AUDIO-VISUAL OPERATORS		
	3521	Broadcasting Technicians and Audio-Visual Operators		
	3522	Telecommunications Engineering Technicians		
	3523	Telecommunications Equipment Operators		
	3529	Optical and Electronic Equipment Operators Not Elsewhere Classified		

SSOC 2010			SSOC 2005		
36	TEACHING ASSOCIATE PROFESSIONALS		33	TEACHING ASSOCIATE PROFESSIONALS	
361	3610	PRE-PRIMARY EDUCATION TEACHERS Pre-Primary Education Teachers	331	3311	PRE-PRIMARY EDUCATION TEACHERS Pre-Primary Education Teachers
362	3620	EXTRACURRICULUM INSTRUCTORS Extracurriculum Instructors	332	3320	EXTRACURRICULUM TEACHERS Extracurriculum Teachers
369		TEACHING ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED	339		TEACHING ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED
	3691	Private Tutors		3391	Private Tutors
	3699	Teaching Associate Professionals Not Elsewhere Classified		3399	Teaching Associate Professionals Not Elsewhere Classified
39	OTHER ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED				
391	3910	TRANSLATORS AND INTERPRETERS Translators and Interpreters		See sub-major group 39 'ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED'.	
399		OTHER ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED			
	3991	Religious Associate Professionals			
	3999	Other Associate Professionals Not Elsewhere Classified			

4 CLERICAL SUPPORT WORKERS

CLERICAL WORKERS

SSOC 2010			SSOC 2005		
40	CLERICAL SUPERVISORS				
400	4000	CLERICAL SUPERVISORS Clerical Supervisors			
41	GENERAL AND KEYBOARD CLERKS		41	OFFICE CLERKS	
411	4110	GENERAL OFFICE CLERKS General Office Clerks	411	SECRETARIES AND KEYBOARD OPERATING CLERKS	
				4111	Secretaries and Verbatim Reporters
				4112	Word Processor and Related Operators
				4113	Data Entry Operators
412	4120	SECRETARIES AND VERBATIM REPORTERS Secretaries and Verbatim Reporters	412	ADMINISTRATIVE CLERKS	
				4120	Administrative Clerks
413	4131	KEYBOARD OPERATORS Typists and Word Processing Operators	413	ACCOUNTING AND FINANCE CLERKS	
	4132	Data Entry Clerks		4130	Accounting and Finance Clerks
			414	STATISTICAL AND COMPUTER OPERATIONS CLERKS	
				4141	Statistical Clerks
				4142	Computer Operations Clerks
			415	MATERIAL-RECORDING CLERKS	
				4151	Stock Clerks
				4152	Production Clerks

SSOC 2010			SSOC 2005		
42	CUSTOMER SERVICES CLERKS		42	CUSTOMER SERVICE CLERKS	
421	TELLERS, MONEY COLLECTORS AND RELATED CLERKS		421	CASHIERS, TELLERS AND RELATED CLERKS	
	4211	Bank Tellers and Other Counter Clerks		4211	Cashiers and Ticket Clerks
	4213	Pawnbrokers and Moneylenders		4212	Tellers and Other Counter Clerks
	4214	Bill collectors and Related Workers		4213	Pawnbrokers and Moneylenders
				4219	Cashiers and Related Clerks Not Elsewhere Classified
422	CLIENT INFORMATION CLERKS		422	CLIENT INFORMATION CLERKS	
	4221	Travel Agency and Related Clerks		4221	Travel Agency and Related Clerks
	4223	Telephone Operators		4222	Receptionists and Information Clerks
	4224	Receptionists and Information Clerks		4223	Telephone Operators
	4229	Client Information Clerks Not Elsewhere Classified		4229	Client Information Clerks Not Elsewhere Classified
43	NUMERICAL AND MATERIAL-RECORDING CLERKS				
431	NUMERICAL CLERKS			See sub-major group 41 'OFFICE CLERKS'.	
	4311	Accounting and Bookkeeping Clerks			
	4312	Finance and Insurance Clerks			
	4314	Statistical Clerks			
	4315	Computer Operations Clerks			
432	MATERIAL-RECORDING AND TRANSPORT CLERKS				
	4321	Stock Clerks			
	4322	Production Clerks			
	4323	Transport Clerks			
44	OTHER CLERICAL SUPPORT WORKERS		49	CLERICAL WORKERS NOT ELSEWHERE CLASSIFIED	
441	OTHER CLERICAL SUPPORT WORKERS		490	CLERICAL WORKERS NOT ELSEWHERE CLASSIFIED	
	4411	Library Clerks		4900	Clerical Workers Not Elsewhere Classified
	4417	Legal Clerks			
	4419	Clerical Support Workers Not Elsewhere Classified			

5 SERVICE AND SALES WORKERS

SERVICE WORKERS AND SHOP AND MARKET SALES WORKERS

SSOC 2010		SSOC 2005	
51	PERSONAL SERVICE WORKERS	51	SERVICE WORKERS
511	TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES	511	TRAVEL AND TRANSPORT SERVICE INSPECTORS AND WORKERS
5111	Travel Attendants and Stewards	5111	Travel Attendants and Stewards
5112	Transport Service Inspectors and Related Workers	5112	Transport Service Inspectors and Related Workers
5113	Tourist and Other Guides	5113	Tourist Guides
512	CHEFS AND COOKS	5119	Other Travel Guides
5120	Chefs and Cooks	512	HOUSEKEEPING AND CATERING SERVICE WORKERS
513	WAITERS AND BARTENDERS	5121	Housekeepers
5131	Waiters	5122	Cooks
5132	Bartenders	5123	Waiters
5133	Bar/Lounge Hostesses	5124	Bartenders
5139	Waiters and Bartenders Not Elsewhere Classified	5125	Bar/Lounge Hostesses
514	HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS	5129	Other Waiters and Bartenders
5141	Hairdressers, Barbers and Other Related Workers	513	PERSONAL CARE AND HOUSEHOLD SERVICE WORKERS
5142	Beauticians and Related Workers	5131	Hair Stylists/Hairdressers
5149	Wellness Related Workers Not Elsewhere Classified	5132	Barbers
515	HOUSEKEEPERS AND RELATED WORKERS	5133	Beauticians
5150	Housekeepers and Related Workers	5134	Manicurists and Related Workers
		5135	Undertakers and Embalmers
		5136	Child-Care Workers
		5139	Personal Care and Household Service Workers Not Elsewhere Classified

SSOC 2010			SSOC 2005		
516	5160	MAIL CARRIERS AND SORTING WORKERS Mail Carriers and Sorting Workers	514	5141	PROTECTIVE SERVICE AND RELATED WORKERS Fire Fighters
517	5170	BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS Bookmakers, Croupiers and Related Gaming workers		5142	Policemen
				5143	Prison Guards
				5144	Private Security Guards
519		PERSONAL SERVICE WORKERS NOT ELSEWHERE CLASSIFIED		5145	Life Guards
	5191	Astrologers, Fortune-tellers and Related Workers		5149	Protective Service and Related Workers Not Elsewhere Classified
	5193	Undertakers and Embalmers	515		MAIL DISTRIBUTION WORKERS
	5194	Pet Groomers, Animal Keepers and Trainers		5150	Mail Distribution Workers
	5195	Driving Instructors	519		SERVICE WORKERS NOT ELSEWHERE CLASSIFIED
	5199	Personal Service Workers Not Elsewhere Classified		5190	Service Workers Not Elsewhere Classified
52		SALES WORKERS	52		SHOP AND MARKET SALES WORKERS
521	5211	STALL SALES WORKERS Hawker/Stall Holders (Excluding Prepared Food Or Drinks)	521	5210	SHOP SALES AND RELATED WORKERS Shop Sales and Related Workers
	5212	Hawker/Stall Holders (Prepared Food Or Drinks)			
	5213	Newsvendors	522		STALL SALES WORKERS
	5219	Other Stall Sales Workers		5221	Hawker/Stall Holders (Prepared Food or Drinks)
522	5220	SHOP SALESPERSONS Shop and Store Salespersons		5222	Hawker/Stall Holders (Other Than Prepared Food or Drinks)
				5223	Newsvendors
523	5230	CASHIERS AND TICKET CLERKS Cashiers and Ticket Clerks		5229	Other Stall Sales Workers

SSOC 2010			SSOC 2005		
524		MODELS, SALES DEMONSTRATORS AND OTHER SALES WORKERS	523		FASHION AND OTHER MODELS
	5241	Fashion and Other Models		5230	Fashion and Other Models
	5242	Sales Demonstrators and Door-to-Door Salespersons			
	5244	Contact Centre Salespersons			
	5249	Sales Workers Not Elsewhere Classified			
53		PERSONAL CARE WORKERS			
531		CHILD CARE WORKERS AND TEACHERS' AIDES			See sub-major group 51 'SERVICE WORKERS'.
	5311	Child Care and Related Workers			
	5312	Teachers' Aides			
532		HEALTHCARE ASSISTANTS AND OTHER PERSONAL CARE WORKERS			
	5320	Healthcare Assistants and Other Personal Care workers			
54		PROTECTIVE SERVICES WORKERS			
541		PROTECTIVE SERVICES WORKERS			See sub-major group 51 'SERVICE WORKERS'.
	5411	Fire-Fighting and Rescue Officers			
	5412	Police Officers			
	5413	Prison Officers			
	5414	Security Guards			
	5415	Lifeguards			
	5419	Protective Services and Related Workers Not Elsewhere Classified			
59		SERVICE WORKERS NOT ELSEWHERE CLASSIFIED			
590		SERVICE WORKERS NOT ELSEWHERE CLASSIFIED			
	5900	Service Workers Not Elsewhere Classified			

6 AGRICULTURAL AND FISHERY WORKERS

AGRICULTURAL AND FISHERY WORKERS

SSOC 2010			SSOC 2005		
61	AGRICULTURAL WORKERS		61	AGRICULTURAL WORKERS	
611	MARKET GARDENERS AND CROP GROWERS		610	AGRICULTURAL WORKERS	
	6111	Vegetable Farm Workers		6101	Vegetable Farm Workers
	6113	Gardeners, Horticultural and Nursery Farm Workers		6102	Horticultural and Nursery Farm Workers
612	ANIMAL PRODUCERS			6103	Livestock and Dairy Farm Workers
	6121	Livestock and Dairy Farm Workers		6104	Poultry Farm Workers
	6122	Poultry Farm Workers		6109	Agricultural Workers Not Elsewhere Classified
619	AGRICULTURALWORKERS NOT ELSEWHERE CLASSIFIED				
	6190	Agricultural Workers Not Elsewhere Classified			
62	FISHERY WORKERS		62	FISHERY WORKERS	
622	FISHERY WORKERS		620	FISHERY WORKERS	
	6221	Aquaculture Workers		6201	Aquatic Life Cultivation Workers
	6222	Coastal Waters and Deep Sea Fishery Workers		6202	Coastal Waters and Deep Sea Fishery Workers

7 CRAFTSMEN AND RELATED TRADES WORKERS

PRODUCTION CRAFTSMEN AND RELATED WORKERS

SSOC 2010		SSOC 2005	
71	BUILDING AND RELATED TRADES WORKERS, EXCLUDING ELECTRICIANS	71	BUILDING TRADES WORKERS
710	SUPERVISORS AND GENERAL FOREMEN (BUILDING AND RELATED TRADES)	710	SUPERVISORS AND GENERAL FOREMEN (BUILDING TRADES)
7100	Supervisors and General Foremen (Building and Related Trades)	7100	Supervisors and General Foremen (Building Trades)
711	BUILDING FRAME AND RELATED TRADES WORKERS	711/712	BUILDING TRADES WORKERS
7112	Bricklayers and Related Workers	7111	Bricklayers, Stonemasons and Tile Setters
7113	Stone Cutters, Splitters, Carvers and Stonemasons	7112	Concrete Placers, Concrete Finishers and Related Workers
7114	Concrete Placers, Concrete Finishers and Related Workers	7113	Roofers
7115	Carpenters and Joiners	7114	Carpenters and Joiners
7119	Building Frame and Related Trades Workers Not Elsewhere Classified	7115	Plasterers
		7116	Insulation Workers
		7117	Glaziers
712	BUILDING FINISHERS AND RELATED TRADES WORKERS	7118	Building Painters
7121	Roofers	7119	Painters (Except Building) and Related Workers
7122	Floor Layers and Tile Setters	7120	Housebuilders (General)
7123	Plasterers	7129	Building Trades Workers Not Elsewhere Classified
7124	Insulation Workers		
7125	Glaziers		
7126	Plumbers, Pipe Fitters and Related Workers		
7127	Air-Conditioning and Refrigeration Mechanics		
7129	Building Finishers and Related Trades Workers Not Elsewhere Classified		

SSOC 2010		SSOC 2005	
713	PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED WORKERS		
7131	Building Painters and Related Workers		
7132	Spray Painters, Varnishers and Other Painters		
7133	Building Maintenance Workers, Building Structure Cleaners and Related Workers		
72	METAL, MACHINERY AND RELATED TRADES WORKERS	72	METAL, MACHINERY AND RELATED TRADES WORKERS
720	SUPERVISORS AND GENERAL FOREMEN (METAL, MACHINERY AND RELATED TRADES)	720	SUPERVISORS AND GENERAL FOREMEN (METAL, MACHINERY AND RELATED TRADES)
7200	Supervisors and General Foreman (Metal, Machinery and Related Trades)	7200	Supervisors and General Foremen (Metal, Machinery and Related Trades)
721	SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS	721	METAL MOULDERS, PLUMBERS, WELDERS, SHEET METAL WORKERS, STRUCTURAL METAL PREPARERS AND RELATED TRADES WORKERS
7211	Metal Moulders and Coremakers	7211	Metal Moulders and Coremakers
7212	Welders and Flame Cutters	7212	Plumbers and Pipe Fitters
7213	Sheet Metal Workers	7213	Welders and Flame Cutters
7214	Structural Metal Preparers and Erectors	7214	Sheet Metal Workers
7215	Riggers and Cable Splicers	7215	Structural Metal Preparers and Erectors
		7216	Riggers and Cable Splicers

SSOC 2010		SSOC 2005	
722	BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS	722	BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS
7221	Blacksmiths, Hammersmiths and Forging-Press Workers	7221	Blacksmiths, Hammersmiths and Forging-Press Workers
7222	Toolmakers and Related Workers	7222	Toolmakers and Related Workers
7224	Metal Polishers, Wheel Grinders and Tool Sharpeners	7223	Metal Grinders, Polishers and Tool Sharpeners
723	MACHINERY MECHANICS, FITTERS AND REPAIRERS	723	MACHINERY MECHANICS AND FITTERS
7231	Motor Vehicle Mechanics and Repairers	7231	Motor Vehicle Mechanics
7232	Aircraft Engine Mechanics and Repairers	7232	Other Machinery Mechanics
7233	Other Machinery Mechanics and Repairers	7233	Machinery Fitters
		724	ELECTRICAL AND ELECTRONIC INSTRUMENT MECHANICS AND FITTERS
		7241	Electricians
		7242	Electrical Fitters and Mechanics
		7243	Electronics Fitters
		7244	Audio and Video Equipment Mechanics
		7245	Computer and Related Electronic Equipment Mechanics
		7246	Telecommunications Installers and Servicers
		7247	Electrical Line Installers
73	PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS	73	PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS
730	SUPERVISORS AND GENERAL FOREMEN (PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES)	730	SUPERVISORS AND GENERAL FOREMEN (PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES)
7300	Supervisors and General Foremen (Precision, Handicraft, Printing and Related Trades)	7300	Supervisors and General Foremen (Precision, Handicraft, Printing And Related Trades)

SSOC 2010			SSOC 2005		
731		HANDICRAFT AND PRECISION WORKERS	731		PRECISION WORKERS IN METAL AND RELATED MATERIALS
	7311	Precision Instrument Makers and Repairers		7311	Precision Instrument Makers and Repairers
	7312	Musical Instrument Makers, Repairers and Tuners		7312	Musical Instrument Makers, Repairers and Tuners
	7313	Jewellery and Precious Metal Workers		7313	Jewellery and Precious Metal Workers
	7314	Potters and Related Workers			
	7315	Glass Makers, Cutters, Grinders and Finishers			
	7316	Sign Writers, Decorative Painters, Engravers and Etchers			
732		PRINTING TRADES WORKERS	732		POTTERS, GLASS MAKERS AND RELATED TRADES WORKERS
	7321	Pre-Press Trades Workers		7321	Potters and Related Workers
	7322	Printers		7322	Glass Makers, Cutters, Grinders and Finishers
				7323	Glass Engravers and Related Decorative Painters
			733		PRINTING AND RELATED TRADES WORKERS
				7331	Compositors and Typesetters
				7332	Stereotypers and Electrotypers
				7333	Printing Engravers and Etchers
				7334	Silk Screen, Block and Textile Printers
74		ELECTRICAL AND ELECTRONIC TRADES WORKERS			
740		SUPERVISORS AND GENERAL FOREMAN (ELECTRICAL AND ELECTRONIC TRADES)			See sub-major group 72 'METAL, MACHINERY AND RELATED TRADES WORKERS'.
	7400	Supervisors and General Foreman (Electrical and Electronic Trades)			

SSOC 2010			SSOC 2005		
741		ELECTRICAL EQUIPMENT RELATED TRADES WORKERS			
	7411	Electricians			
	7412	Electrical Mechanics and Fitters			
	7413	Electrical Line Installers and Repairers			
742		ELECTRONICS AND TELECOMMUNICATIONS AND RELATED TRADES WORKERS			
	7421	Electronics Mechanics and Servicers			
	7422	Information and Communications Technology Installers and Servicers			
75		FOOD PROCESSING, WOOD WORKING, GARMENT, LEATHER AND OTHER CRAFT AND RELATED TRADES WORKERS	74		FOOD PROCESSING, WOODWORKING, TEXTILE, LEATHER AND RELATED TRADES WORKERS
750		SUPERVISORS AND GENERAL FOREMEN (FOOD PROCESSING, WOODWORKING, GARMENT, LEATHER AND RELATED TRADES)	740		SUPERVISORS AND GENERAL FOREMEN (FOOD PROCESSING, WOODWORKING, TEXTILE, LEATHER AND RELATED TRADES)
	7500	Supervisors and General Foreman (Food Processing, Woodworking, Garment, Leather and Related Trades)		7400	Supervisors and General Foremen (Food Processing, Woodworking, Textile, Leather and Related Trades)
751		FOOD PROCESSING AND RELATED TRADES WORKERS	741		FOOD PROCESSING AND RELATED TRADES WORKERS
	7511	Meat and Fish Preparers		7411	Meat and Fish Preparers
	7512	Bakers, Pastry and Confectionery Makers		7412	Bakers, Pastry-Cooks and Confectionery Makers
	7515	Food and Beverage Tasters and Graders		7413	Food And Beverage Tasters and Graders
	7519	Food Processing and Related Trades Workers Not Elsewhere Classified		7419	Food Processing and Related Trades Workers Not Elsewhere Classified

SSOC 2010		SSOC 2005	
752	WOOD TREATERS, CABINET MAKERS AND RELATED TRADES WORKERS	742	WOOD TREATERS, CABINET MAKERS AND RELATED TRADES WORKERS
7521	Wood Treaters	7421	Wood Treaters
7522	Cabinet Makers and Wood Related Trades Workers	7422	Cabinet Makers and Related Workers
7529	Furniture Makers and Related Trades Workers Not Elsewhere Classified	7429	Rattan Furniture Makers and Related Trades Workers Not Elsewhere Classified
753	GARMENT, LEATHER AND RELATED TRADES WORKERS	743	TEXTILE, GARMENT AND RELATED TRADES WORKERS
7531	Tailors/Dressmakers	7431	Tailors/Dressmakers
7532	Garment and Related Pattern-Makers and Cutters	7432	Garment Cutters
7534	Upholsterers and Related Workers	7433	Textile, Leather and Related Pattern Makers
7536	Shoemakers and Related Workers	7434	Upholsterers and Related Workers
7539	Garment and Related Trades Workers Not Elsewhere Classified	7439	Textile, Garment and Related Trades Workers Not Elsewhere Classified
754	OTHER CRAFT AND RELATED WORKERS	744	LEATHER AND SHOEMAKING TRADES WORKERS
7540	Other Craft and Related Workers	7440	Shoemakers and Related Workers
		79	PRODUCTION CRAFTSMEN AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED
		790	PRODUCTION CRAFTSMEN AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED
		7900	Production Craftsmen and Related Workers Not Elsewhere Classified

8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS

PLANT AND MACHINE OPERATORS AND ASSEMBLERS

SSOC 2010		SSOC 2005	
81	STATIONARY PLANT AND MACHINE OPERATORS	81	STATIONARY PLANT AND RELATED OPERATORS
810	STATIONARY PLANT AND MACHINE SUPERVISORS AND GENERAL FOREMEN	810	STATIONARY PLANT SUPERVISORS AND GENERAL FOREMEN
8100	Stationary Plant and Machine Supervisors and General Foremen	8100	Stationary Plant Supervisors and General Foremen
811	MINING AND MINERAL PROCESSING PLANT OPERATORS	811	MINING PLANT OPERATORS
8113	Well Drillers and Borers and Other Mining Related Workers	8111	Well Drillers And Borers And Related Workers
8114	Cement and Other Mineral Products Machine Operators		
812	METAL PROCESSING, FINISHING AND PRODUCTS PLANT OPERATORS	812	METAL PROCESSING PLANT OPERATORS
8121	Metal Melters, Casters and Rolling Mill Operators	8121	Ore And Metal Furnace Operators
8122	Metal Heat Treating Plant Operators	8122	Metal Melters, Casters and Rolling Mill Operators
8123	Metal Drawers and Extruders	8123	Metal Heat Treating Plant Operators
8124	Metal Finishing, Plating and Coating Machine Operators	8124	Metal Drawers and Extruders
8125	Machine-Tool Setter-Operators		
813	CHEMICAL PROCESSING, CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS	813	GLASS, CERAMICS AND RELATED PLANT OPERATORS
8131	Chemical Processing and Chemical Products Plant and Machine Operators	8131	Glass And Ceramics Kiln And Related Machine Operators
8132	Photographic Products Machine Operators	8139	Fibreglass Makers and Related Plant Operators Not Elsewhere Classified
8133	Pharmaceutical and Toiletry Products Machine Operators		
8139	Chemical Processing, Chemical and Photographic Products Plant and Machine Operators Not Elsewhere Classified	814	WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS
		8141	Wood Processing Plant Operators
		8142	Paper Pulp Plant Operators
		8143	Papermaking Plant Operators

SSOC 2010		SSOC 2005	
814	RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS	815	CHEMICAL PROCESSING PLANT OPERATORS
8141	Rubber Products Machine Operators	8150	Chemical Processing Plant Operators
8142	Plastic Products Machine Operators	816	POWER GENERATING AND RELATED PLANT OPERATORS
8143	Paper and Paperboard Products Machine Operators	8161	Power Generating Plant Operators
815	TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS	8162	Steam Engine and Boiler Operators
8151	Fibre Preparing, Spinning and Winding Machine Operators	8169	Water Treatment and Related Plant Operators Not Elsewhere Classified
8152	Weaving and Knitting Machine Operators	817	AUTOMATED ASSEMBLY LINE AND INDUSTRIAL ROBOT OPERATORS
8153	Sewing Machine Operators	8170	Automated Assembly Line and Industrial Robot Operators
8154	Bleaching, Dyeing and Fabric Cleaning Machine Operators	819	OTHER STATIONARY PLANT AND RELATED PLANT OPERATORS
8159	Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified	8190	Other Stationary Plant and Related Plant Operators
816	FOOD AND RELATED PRODUCTS MACHINE OPERATORS	82	MACHINE OPERATORS AND ASSEMBLERS
8161	Meat and Fish Products Machine Operators	820	MACHINE SUPERVISORS AND GENERAL FOREMEN
8162	Dairy and Confectionery Products Machine Operators	8200	Machine Supervisors and General Foremen
8163	Grain and Spice Milling Machine Operators	821	METAL AND MINERAL PRODUCTS MACHINE OPERATORS
8164	Baked and Cereal Products Machine Operators	8211	Machine-Tool Setter-Operators
8165	Fruit, Vegetable and Nut Products Machine Operators		
8166	Sugar Processing and Refining Machine Operators		
8167	Brewers and Wine and Other Beverage Machine Operators		
8168	Tobacco Products Machine Operators		
8169	Food and Related Products Machine Operators Not Elsewhere Classified		

SSOC 2010		SSOC 2005	
817	WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS	8212	Cement and Other Mineral Products Machine Operators
8171	Pulp and Papermaking Plant Operators	8221	Pharmaceutical and Toiletry Products Machine Operators
8172	Wood Processing Plant Operators	822	CHEMICAL PRODUCTS MACHINE OPERATORS
8173	Wood Products Machine Operators	8222	Metal Finishing, Plating and Coating Machine Operators
818	OTHER STATIONARY PLANT AND MACHINE OPERATORS	8223	Photographic Products Machine Operators
8181	Glass and Ceramics Plant Operators	8229	Chemical Products Machine Operators Not Elsewhere Classified
8182	Steam Engine and Boiler Operators	823	RUBBER AND PLASTICS PRODUCTS MACHINE OPERATORS
8183	Packing, Bottling and Labelling Machine Operators	8231	Rubber Products Machine Operators
8184	Printing, Binding and Related Machine Operators	8232	Plastic Products Machine Operators
8185	Water Treatment and Related Machine Operators	824	WOOD PRODUCTS MACHINE OPERATORS
8186	Power Generating Plant Operators	8240	Wood Products Machine Operators
8187	Petroleum and Natural Gas Refining Plant Operators	825	PRINTING, BINDING AND PAPER PRODUCTS MACHINE OPERATORS
8188	Automated Assembly Line and Industrial Robot Operators	8251	Printing Machine Operators
8189	Stationary Plant and Machine Operators Not Elsewhere Classified	8252	Bookbinding and Related Machine Operators
		8253	Paper and Paperboard Products Machine Operators
		826	TEXTILE PRODUCTS MACHINE OPERATORS
		8261	Spinning and Winding Machine Operators
		8262	Weaving and Knitting Machine Operators
		8263	Sewing and Embroidering Machine Operators
		8264	Textile Bleaching, Dyeing and Cleaning Machine Operators
		8269	Textile Products Machine Operators Not Elsewhere Classified

SSOC 2010			SSOC 2005		
			827		FOOD AND RELATED PRODUCTS MACHINE OPERATORS
				8271	Meat and Fish Processing Machine Operators
				8272	Dairy and Confectionery Products Machine Operators
				8273	Grain and Spice Milling Machine Operators
				8274	Baked and Cereal Products Machine Operators
				8275	Fruit, Vegetable and Nut Processing Machine Operators
				8276	Sugar Processing and Refining Machine Operators
				8277	Brewers And Wine and Other Beverage Machine Operators
				8278	Tobacco Products Machine Operators
				8279	Food and Related Products Machine Operators Not Elsewhere Classified
82	ASSEMBLERS AND QUALITY CHECKERS				
820	SUPERVISORS AND GENERAL FOREMEN OF ASSEMBLERS AND QUALITY CHECKERS		828		ASSEMBLERS AND QUALITY CHECKERS
	8200	Supervisors and General Foremen of Assemblers and Quality Checkers		8281	Assemblers
				8282	Quality Checkers and Testers
821	ASSEMBLERS, QUALITY CHECKERS AND TESTERS		829		MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED
	8212	Electrical and Electronic Equipment Assemblers		8290	Machine Operators Not Elsewhere Classified
	8213	Quality Checkers and Testers			
	8219	Assemblers Not Elsewhere Classified			

SSOC 2010			SSOC 2005		
83	DRIVERS AND MOBILE MACHINERY OPERATORS		83	DRIVERS AND MOBILE MACHINERY OPERATORS	
830		MOBILE MACHINERY SUPERVISORS AND GENERAL FOREMEN	830		MOBILE MACHINERY SUPERVISORS AND GENERAL FOREMEN
	8300	Mobile Machinery Supervisors and General Foremen		8300	Mobile Machinery Supervisors and General Foremen
831		MRT TRAIN OPERATORS AND RELATED WORKERS	831		MRT TRAIN OPERATORS AND RELATED WORKERS
	8311	MRT Train Operators		8311	MRT Train Operators
	8312	Railway Brakers and Related Workers		8312	Railway Brakers and Related Workers
832		CAR AND LIGHT GOODS VEHICLE DRIVERS	832		MOTOR VEHICLE DRIVERS
	8321	Motorcycle Delivery Men		8321	Motorcycle Delivery Men
	8322	Car, Taxi and Van Drivers		8322	Taxi Drivers
	8329	Car and Light Goods Vehicle Drivers Not Elsewhere Classified		8323	Driving Instructors and Testers
				8324	Other Car and Light Goods Vehicle Drivers
833		HEAVY TRUCK AND BUS DRIVERS		8325	Bus Drivers
	8331	Bus and Tram Drivers		8326	Lorry Drivers
	8332	Heavy Truck and Lorry Drivers		8327	Heavy Truck Drivers
834		MOBILE MACHINERY OPERATORS	833		MOBILE MACHINERY OPERATORS
	8342	Earth Moving and Related Machinery Operators		8331	Earth Moving and Related Machinery Operators
	8343	Crane, Hoist and Related Equipment Operators		8332	Crane, Hoist and Related Equipment Operators
	8344	Lifting Truck Operators		8339	Other Mobile Machinery Operators
	8349	Mobile Machinery Operators Not Elsewhere Classified			
835		SHIPS' DECK CREW AND RELATED WORKERS	834		SHIPS' DECK CREW AND RELATED WORKERS
	8350	Ships' Deck Crew and Related Workers		8340	Ships' Deck Crew and Related Workers

9 CLEANERS, LABOURERS AND RELATED WORKERS

CLEANERS, LABOURERS AND RELATED WORKERS

SSOC 2010			SSOC 2005		
91	CLEANERS AND RELATED WORKERS		91	CLEANERS AND RELATED WORKERS	
910		CLEANING SUPERVISORS	911		DOMESTIC HELPERS AND CLEANERS
	9100	Cleaning Supervisors		9110	Domestic Helpers and Cleaners
911		CLEANERS AND HELPERS IN HOTELS, OFFICES AND OTHER ESTABLISHMENTS	912		CLEANERS AND HELPERS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS
	9112	Cleaners and Helpers in Hotels and Related Establishments		9121	Laundry and Dry Cleaning Workers
	9113	Cleaners In Offices and Other Establishments		9122	Cleaners and Helpers In Hotels And Related Establishments
				9129	Cleaners in Offices and Other Establishments
912		VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS	913		TRANSPORT VEHICLE CLEANERS
	9121	Hand Launderers and Pressers		9131	Motor Vehicle Cleaners/Polishers
	9122	Vehicle Cleaners		9139	Other Transport Vehicle Cleaners
	9123	Window Cleaners			
	9129	Cleaning Workers Not Elsewhere Classified	914		GARBAGE COLLECTORS, SWEEPERS AND RELATED WORKERS
913		DOMESTIC HELPERS AND CLEANERS		9141	Garbage Collectors
	9130	Domestic Helpers and Cleaners		9142	Sweepers and Related Workers

SSOC 2010			SSOC 2005		
92	AGRICULTURAL, FISHERY AND RELATED LABOURERS		93	LABOURERS AND RELATED WORKERS	
921		AGRICULTURAL, FISHERY AND RELATED LABOURERS	931		AGRICULTURAL AND FISHERY LABOURERS AND RELATED WORKERS
	9214	Park and Garden Maintenance Workers		9311	Park and Garden Maintenance Workers
	9219	Agricultural, Fishery Labourers and Related Workers Not Elsewhere Classified		9319	Agricultural and Fishery Labourers and Related Workers Not Elsewhere Classified
93	LABOURERS AND RELATED WORKERS				
931		CONSTRUCTION LABOURERS AND RELATED WORKERS	932		MANUFACTURING LABOURERS AND RELATED WORKERS
	9310	Civil Engineering and Building Construction Labourers		9320	Manufacturing Labourers and Related Workers
932		MANUFACTURING LABOURERS AND RELATED WORKERS	933		CONSTRUCTION LABOURERS AND RELATED WORKERS
	9320	Manufacturing Labourers and Related Workers		9330	Construction Labourers and Related Workers
933		TRANSPORT AND STORAGE LABOURERS	934		TRANSPORT LABOURERS AND RELATED WORKERS
	9331	Hand and Pedal Vehicle Drivers		9341	Material and Freight Handling Workers
	9333	Material and Freight Handling Workers		9342	Pedal Vehicle Drivers
			939		LABOURERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED
				9390	Labourers and Related Workers Not Elsewhere Classified
94	FOOD PREPARATION AND KITCHEN ASSISTANTS				
941		FOOD PREPARATION AND KITCHEN ASSISTANTS			See sub-major group 91 'CLEANERS AND RELATED WORKERS'.
	9410	Food Preparation and Kitchen Assistants			

SSOC 2010			SSOC 2005		
96	REFUSE WORKERS AND OTHER ELEMENTARY WORKERS		92	PORTERS, ATTENDANTS AND RELATED WORKERS	
961	REFUSE WORKERS		920	PORTERS, ATTENDANTS AND RELATED WORKERS	
	9611	Garbage and Recycling Collectors		9201	Bell Captains
	9613	Sweepers and Related Workers		9202	Bellboys/Hotel Porters
				9203	Porters (Except Hotel)
962	PORTERS, ATTENDANTS AND RELATED WORKERS			9204	Attendants
	9621	Porters and Related Workers		9205	Watchmen and Related Workers
	9625	Attendants			
	9626	Watchmen and Related Workers			
	9629	Other Elementary Workers			

X WORKERS NOT CLASSIFIABLE BY OCCUPATION

X WORKERS NOT CLASSIFIABLE BY OCCUPATION

SSOC 2010		SSOC 2005	
X1000	Worker Reporting Unidentifiable or Inadequately Described Occupation	X1000	Worker Reporting Unidentifiable or Inadequately Described Occupation
X2000	Worker Not Reporting Any Occupation	X2000	Worker Not Reporting Any Occupation
X3000	Singapore Armed Forces Personnel	X3000	Singapore Armed Forces Personnel
X4000	Foreign Armed Forces Personnel	X4000	Foreign Armed Forces Personnel
X5000	Foreign Diplomatic Personnel	X5000	Foreign Diplomatic Personnel

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29011	Abbot	11150	Administrator of employers' organisation
83502	Able seaman	11150	Administrator of labour union
73149	Abrasive wheel moulder	11140	Administrator of political party organisation
73149	Abrasive-coated cloth and paper maker	11150	Administrator of professional association
81819	Abrasives mixer	11150	Administrator of trade association
73120	Accordion maker	11150	Administrator of trade union
73120	Accordion tuner	11150	Administrator of workers' organisation
24111	Accountant (general)	14330	Administrator, arts
33130	Accountant, assistant	25220	Administrator, computer systems
24112	Accountant, audit	25211	Administrator, database
24111	Accountant, casino	11121	Administrator, government
24111	Accountant, chartered	25220	Administrator, network
24111	Accountant, company	34229	Adventure training instructor
24111	Accountant, cost	71323	Advertisement painter (sign writing)
24111	Accountant, cost and works	33226	Advertising accounts executive
24111	Accountant, public	26413	Advertising copywriter
72333	Accounting and calculating machine mechanic	34391	Advertising illustrator
44199	Accounting machine operator	12220	Advertising manager
12111	Accounting manager (finance department)	34310	Advertising photographer
33130	Accounting officer	33392	Advertising representative
43119	Accounts analyst	33392	Advertising salesman
43112	Accounts assistant	24231	Adviser, careers
43112	Accounts clerk	23511	Adviser, education methods
43112	Accounts payable (or receivable) bookkeeper	23511	Adviser, teaching methods
40000	Accounts section supervisor	24212	Advisory services, consultant, business
81872	Acetylene filler	26111	Advocate
81314	Acetylene plant operator	74221	Aerial erector (radio and television)
73161	Acid polisher (glass decorating)	34310	Aerial photographer
81139	Acidiser (oil and gas wells)	83439	Aerial ropeway operator
71249	Acoustical insulator	34424	Aerialist
21110	Acoustics physicist	34223	Aerobics instructor
44110	Acquisitions clerk (library)	21429	Aerodrome construction engineer
34423	Acrobat	21110	Aerodynamicist
26550	Actor	73162	Aerographing decorator (ceramics)
26550	Actor, dramatic	31182	Aeronautical draughtsman
26550	Actor, film	31182	Aeronautical draughtsperson
33149	Actuarial officer	21445	Aeronautical engineer
21213	Actuary	31152	Aeronautical engineering technician
22302	Acupuncturist	72321	Aeronautical mechanic
43122	Adjustment clerk (insurance)	31152	Aerospace component repair technician
12112	Administration manager		
11150	Administrator of business association		

31155	Aerospace machining specialist	31154	Air-conditioning and refrigeration engineering technician
61900	Afforestation worker	71243	Air-conditioning and refrigeration equipment insulator
53113	After-school care centre worker	21447	Air-conditioning engineer
13430	Aged care services manager	31154	Air-conditioning engineering technician
33311	Agent, clearing	54110	Aircraft accident fire-fighter
33311	Agent, clearing and forwarding	51112	Aircraft cabin attendant
33330	Agent, employment	91292	Aircraft cabin cleaner
33340	Agent, estate	31531	Aircraft captain (air transport)
33311	Agent, forwarding	91292	Aircraft cleaner
33311	Agent, goods (railway)	21445	Aircraft designer
33340	Agent, house	74110	Aircraft electrician
33211	Agent, insurance	72322	Aircraft engine fitter
33399	Agent, literary	72322	Aircraft engine fitter-assembler
33229	Agent, manufacturer's	72321	Aircraft engine mechanic
29090	Agent, patent	51112	Aircraft hostess
33232	Agent, procurement	71152	Aircraft joiner
33340	Agent, property	93333	Aircraft loader
33232	Agent, purchasing	31531	Aircraft pilot (commercial airline)
33340	Agent, real estate	31532	Aircraft pilot (except commercial airline and air force)
33312	Agent, ship	71262	Aircraft pipe and tube fitter
33311	Agent, shipping	72155	Aircraft rigger
33219	Agent, special (group insurance systems)	72139	Aircraft sheet metal worker
33399	Agent, sports	51112	Aircraft steward
33399	Agent, theatrical	75349	Aircraft upholsterer
21499	Agricultural engineer	83429	Air-drill operator (construction)
31199	Agricultural engineering technician	31531	Airline pilot
72339	Agricultural machinery fitter	42244	Airport hostess
72339	Agricultural machinery fitter-assembler	83324	Airport mobile equipment driver
72339	Agricultural machinery mechanic	42244	Airport reception clerk
83490	Agricultural machinery operator	42244	Airport receptionist
13101	Agriculture manager	31158	Airworthiness surveyor
21321	Agronomist	81314	Alcohol distiller
31429	Agronomy technician	81314	Alcohol stillman
31595	Air cargo officer	26524	Alto
51112	Air hostess (aircrew)	26524	Alto singer
42244	Air hostess (ground)	91301	Amah (general)
54121	Air marshal	11121	Ambassador (government)
31540	Air traffic controller	X5000	Ambassador, foreign
13243	Air traffic operations manager	83291	Ambulance driver
31571	Air transport service supervisor	32594	Ambulance paramedic
81419	Air-bag moulder (tyre making)	14322	Amusement park manager
81852	Air-compressor operator	81890	Amusement ride operator
71272	Air-conditioning and refrigerating equipment installer	22141	Anaesthesiologist
71271	Air-conditioning and refrigerating equipment mechanic	22141	Anaesthetist
21447	Air-conditioning and refrigeration engineer	25140	Analyst programmer
		43119	Analyst, accounts
		24212	Analyst, business

24131	Analyst, credit	31185	Architectural draughtsperson
24131	Analyst, equities	34310	Architectural photographer
24131	Analyst, financial	26211	Archivist
24231	Analyst, job	X4000	Armed forces (foreign)
24312	Analyst, market research	X3000	Armed forces (Singapore)
24231	Analyst, occupational	26532	Arranger, ballet
21212	Analyst, operations research	26421	Art critic
24220	Analyst, policy	26543	Art director
24132	Analyst, risk (financial)	26212	Art gallery curator
26323	Analyst, social research	54123	Art gallery guard
25111	Analyst, systems	51139	Art gallery guide
21342	Anatomist	14330	Art gallery manager
21345	Animal geneticist	36202	Art instructor (extracurriculum)
21313	Animal histologist	36202	Art teacher (private tuition)
51942	Animal keeper (zoo)	75390	Artificial flower maker
22500	Animal pathologist	61210	Artificial inseminator (livestock)
21313	Animal physiologist	61223	Artificial inseminator (poultry)
21345	Animal scientist	25190	Artificial intelligence engineer
21313	Animal taxonomist	25190	Artificial intelligence specialist
51942	Animal trainer (zoo)	32141	Artificial limb fitter
26542	Animation director	32142	Artificial limb maker
34364	Animator	26512	Artist (painter)
81220	Annealer, metal	34391	Artist, commercial
34411	Announcer, radio	26519	Artist, creative (glass and ceramics)
34412	Announcer, television	34323	Artist, display
81246	Anodiser	34391	Artist, fashion
74221	Antenna erector (radio and television)	34361	Artist, graphic
26322	Anthropologist	21620	Artist, landscape
26120	Appeal court judge	34391	Artist, litho
25140	Applications programmer	34391	Artist, poster
75222	Applier, veneer	73162	Artist, pottery
33151	Appraiser	34413	Artiste, dubbing
21327	Aquaculturist	34424	Artiste, high-wire
62212	Aquarium fish breeder	34424	Artiste, trapeze
62212	Aquarium fish farm worker	33399	Artistes agent
62212	Aquarium fish farmer	26543	Artistic director
51132	Aquarium guide	52419	Artist's model
26120	Arbitration court judge	14330	Arts administrator
21322	Arboriculturist	14330	Arts manager
21322	Arborist	81142	Asbestos cement product making machine operator
26339	Archaeologist	81871	Asphalt blender
29011	Archbishop	83425	Asphalt spreading machine operator
21610	Architect, building	21462	Assayer
25230	Architect, infrastructure (IT)	74129	Assembler and installer, electric sign
21620	Architect, landscape	82123	Assembler, battery
21444	Architect, marine	73111	Assembler, chronometer
21444	Architect, naval	73111	Assembler, clock and watch
25230	Architect, network		
21610	Architect, urban design		
31185	Architectural draughtsman		

82121	Assembler, electrical equipment	94102	Assistant, cafeteria
82122	Assembler, electronic component	94102	Assistant, canteen
82122	Assembler, electronic equipment	41101	Assistant, clerical
72139	Assembler, furniture (sheet metal)	94102	Assistant, coffee shop
82121	Assembler, industrial machinery (electrical)	35120	Assistant, computer systems analysis
75364	Assembler, leather goods	94102	Assistant, hawkler (prepared food or drinks)
82199	Assembler, metal products	44110	Assistant, library
82122	Assembler, microelectronics	33493	Assistant, operations liaison
82121	Assembler, office machine (electrical)	41201	Assistant, personal
82122	Assembler, office machine (electronic)	41103	Assistant, personnel
73119	Assembler, photographic equipment	35219	Assistant, production
82199	Assembler, plastic products	52202	Assistant, shop
71199	Assembler, prefabricated building section	94102	Assistant, stall (coffee shop)
82122	Assembler, radio receiver	94102	Assistant, stall (prepared food or drinks)
82122	Assembler, radio valve	43141	Assistant, statistical (general)
82199	Assembler, rubber goods	43219	Assistant, stores
82122	Assembler, semi-conductor device	32400	Assistant, veterinary
82122	Assembler, television receiver	26120	Assize judge
73111	Assembler, watch and clock	51910	Astrologer
33152	Assessor, insurance	21110	Astrometrist
33152	Assessor, loss	21110	Astronomer
33493	Asset securitisation executive	21110	Astrophysicist
33130	Assistant accountant	34210	Athlete
31005	Assistant chemical engineer	34221	Athletic coach
31001	Assistant civil engineer	51112	Attendant, aircraft cabin
51202	Assistant cook	81821	Attendant, boiler
31002	Assistant electrical engineer	96259	Attendant, bowling alley
31003	Assistant electronics engineer	96254	Attendant, car park
31005	Assistant engineer (chemical)	96259	Attendant, cloakroom
31001	Assistant engineer (civil)	96259	Attendant, crematorium
31002	Assistant engineer (electrical)	51312	Attendant, dining car (railway)
31003	Assistant engineer (electronic)	73162	Attendant, dipping machine (ceramics decorating)
31006	Assistant engineer (manufacturing)	96259	Attendant, fairground
31004	Assistant engineer (mechanical)	96259	Attendant, fun-fair
31006	Assistant engineer (production)	96253	Attendant, hospital
31001	Assistant engineer (structural)	96259	Attendant, hot-room (bath)
31006	Assistant manufacturing engineer	96252	Attendant, laboratory
31004	Assistant mechanical engineer	96259	Attendant, lavatory
32202	Assistant nurse	96251	Attendant, library
31006	Assistant production engineer	96259	Attendant, lift
31001	Assistant structural engineer	93335	Attendant, lorry
43112	Assistant, accounts	96253	Attendant, mental hospital
43113	Assistant, audit	96251	Attendant, office
		81675	Attendant, pasteuriser (malt liquor)

51330	Bar hostess	51702	Betting clerk
81215	Bar mill roller	73159	Beveller, glass
51330	Bar/lounge hostess supervisor	26229	Bibliographer
51412	Barber	72339	Bicycle repairer
71151	Barge builder (wood)	42141	Bill collector
31599	Barge superintendent	71151	Billboard erector
83509	Bargeman	34221	Billiards instructor
26524	Baritone	34210	Billiards player
14123	Barkeeper (working proprietor)	43115	Billing clerk
51320	Barman	59009	Billposter
73119	Barometer maker	81842	Binder, book (machine)
75229	Barrel maker	21343	Biochemist
26111	Barrister	31411	Biochemistry technician
44170	Barrister's clerk	26411	Biographer
51320	Bartender	21343	Biological chemist
75291	Basket furniture maker	31411	Biological technician
75299	Basket maker	21311	Biologist (general)
75299	Basket weaver	21319	Biologist, marine
26524	Bass singer	31411	Biology laboratory technician
81314	Batch still operator (chemical processes, except petroleum)	21491	Biomedical engineer
26512	Batik painter	21220	Biometrician
73221	Batik printer	21349	Biophysicist
82123	Battery assembler	21220	Biostatistician
54150	Beach guard	31411	Biotech laboratory technician
81419	Bead builder (tyre making)	21329	Biotechnologist, plant
81691	Bean curd making machine operator	51942	Bird keeper (bird park)
81711	Beater operator (paper pulp)	54199	Bird sanctuary warden
73139	Beater, gold	51942	Bird trainer
72139	Beater, panel (aircraft)	51132	Birdpark guide
72133	Beater, panel (vehicle)	81641	Biscuit baker
51421	Beautician	81641	Biscuit maker
75349	Bedding maker	81641	Biscuit making machine operator
96211	Bell captain	81811	Biscuit placer (ceramics)
96212	Bellboy	81811	Biscuit-kiln fireman (pottery and porcelain)
71151	Bench carpenter	81811	Biscuit-kiln fireman (tile)
71152	Bench joiner	29011	Bishop
72142	Bender and fixer, steel (reinforced concrete)	83425	Bituminous paving machine operator
72149	Bender and turner, ship frame	75190	Blachan maker
72142	Bender, bar (construction)	72211	Blacksmith (general)
73159	Bender, glass tube	81659	Blancher (nuts)
72149	Bender, metal plate	81211	Blast furnaceman (ore smelting)
72149	Bender, plate	81711	Bleacher operator (papermaking)
75229	Bender, wood	81319	Bleacher operator, chemical
81431	Bending machine operator (paper box)	81541	Bleacher, textile
81259	Bending press operator, metal	81871	Blender (petroleum refining)
93339	Berthing man, dock	81871	Blender, asphalt
75361	Bespoke shoemaker	81677	Blender, coffee
		81871	Blender, ethyl (petroleum refining)

75390	Blender, fibre	34391	Book illustrator
81871	Blender, oil (petroleum refining)	44110	Book loan clerk
81871	Blender, petroleum refining	81842	Book sewing machine operator
81677	Blender, tea	81842	Bookbinding machine operator
75190	Blender, tobacco	42210	Booking clerk (travel agency)
81679	Blender, wine	52302	Booking office cashier
81311	Blending machine operator (chemical and related processes)	43111	Bookkeeper
81677	Blending machine operator, coffee	43112	Bookkeeper, accounts payable (or receivable)
81677	Blending machine operator, tea	43111	Bookkeeper, general ledger
73221	Block printer	43112	Bookkeeping clerk
71120	Blocklayer	44199	Bookkeeping machine operator
26419	Blogger	51702	Bookmaker
32120	Blood bank technician	51702	Bookmaker's clerk
73151	Blower, glass	33510	Border inspector
73151	Blower, scientific glass	81132	Borer, well (except oil and gas)
81819	Blowing machine operator, glass	81255	Boring machine operator (metalworking)
14112	Boarding house keeper (working proprietor)	81739	Boring machine operator (woodworking)
14111	Boarding house manager	81255	Boring machine setter-operator (metalworking)
93331	Boat loader	81739	Boring machine setter-operator (woodworking)
71151	Boatbuilder, wood	21312	Botanist
83509	Boatman	21312	Botanist, soil
83509	Boatman, ferry	81819	Bottle making machine operator
83509	Boatman, motor	96299	Bottle sorter (hand)
83502	Boatswain	81830	Bottle washing machine operator
81599	Bobbin stripper	93201	Bottler (hand)
72312	Body builder, coach	81830	Bottling machine operator
75229	Body builder, coach (wood)	54199	Bouncer
72133	Body repairer, vehicle	96259	Bowling alley attendant
54140	Bodyguard	81431	Box making machine operator (paper box)
81626	Boiler (sugar confectionery)	93201	Boxer (hand packing)
71242	Boiler and pipe insulator	34210	Boxer (professional sport)
81821	Boiler attendant	81830	Boxing machine operator (packing)
81821	Boiler fireman	52302	Box-office cashier
72132	Boilermaker	71290	Bracer (construction)
72132	Boilermaking plater	32142	Bracer maker (orthopaedic)
81711	Boilerman (paper pulp making)	81599	Braid making machine operator
81860	Boilerman, power plant	81841	Braille duplicating machine operator
72132	Boilersmith	73211	Braille machine operator (plate preparer)
51999	Bomoh	72311	Brake repairer
43123	Bonds clerk	83121	Brakeman, railway
33111	Bonds salesman	83121	Brakeman, train
75119	Boner, meat		
32300	Bonesetter		
26421	Book critic		
26416	Book editor		
81843	Book embosser (machine)		
81843	Book embossing machine operator		

81830	Branding machine operator, goods	71151	Builder, boat (wood)
73120	Brass band musical instrument maker	72312	Builder, coach body
72121	Brazer	75229	Builder, coach body (wood)
75122	Bread baker	75361	Builder, heel (shoemaking)
62212	Breeder, aquarium fish	73120	Builder, organ
61221	Breeder, poultry	81419	Builder, tyre
81673	Brewer	72312	Builder, vehicle body
21496	Brewery technologist	75229	Builder, vehicle body (wood)
81673	Brewmaster	72312	Builder, vehicle frame
81811	Brick and tile kilnman	75229	Builder, vehicle frame (wood)
71120	Bricklayer	21610	Building architect
71120	Bricklayer (construction)	96261	Building caretaker
71120	Bricklayer (firebrick)	21423	Building construction engineer
71120	Bricklayer, kiln	71000	Building construction general foreman
71120	Bricklayer, oven	71000	Building construction supervisor and general foreman
21429	Bridge construction engineer	13232	Building contractor (working proprietor)
83431	Bridge or gantry crane operator (non-port)	74110	Building electrician
83432	Bridge or gantry crane operator (port)	71332	Building exterior cleaner
81659	Briner (foodstuffs)	71250	Building glazier
21530	Broadcast engineer	71241	Building insulator
26421	Broadcast journalist	74110	Building maintenance electrician
35214	Broadcasting equipment operator (except sound recording)	71331	Building maintenance handyman
35211	Broadcasting operations technician	31719	Building maintenance inspector
33241	Broker, commodities	71331	Building maintenance man
33114	Broker, commodities (financial)	31719	Building maintenance supervisor
33112	Broker, foreign exchange	71331	Building maintenance worker
33211	Broker, insurance	71311	Building painter
33111	Broker, investment	33593	Building permit licensing officer
33112	Broker, money	71331	Building repairer
33399	Broker, printing	71332	Building structure cleaner
33111	Broker, securities	31123	Building technician
33242	Broker, ship	71192	Building wrecker
33111	Broker, stocks and shares	83422	Bulldozer operator
33241	Broker, trade	33241	Bunker trader
43123	Brokerage clerk	73162	Burnisher (ceramics decorating)
43122	Broker's clerk (insurance)	72241	Burnisher (metalworking)
75299	Broom maker	75361	Burnisher (shoemaking)
75299	Brush maker	51129	Bus conductor
71311	Brush painter (building)	83311	Bus driver
73169	Brush painter (except construction)	31599	Bus station master
12111	Budget manager	72311	Bus, motor, mechanic
72241	Buffing and polishing machine operator	24212	Business advisory services consultant
71151	Builder, barge (wood)	24212	Business analyst
		24212	Business consultant
		12212	Business development director
		33221	Business development executive
		12212	Business development manager

24212	Business efficiency expert	52301	Cage supervisor
72333	Business machine mechanic	81419	Calender operator, rubber
33593	Business permit licensing officer	81549	Calender operator, textile
51509	Butler	81549	Calenderer, cloth
81623	Butter making machine operator	12242	Call centre manager
81420	Button maker (plastic)	35214	Camera control operator (television broadcasting)
33231	Buyer	35213	Camera operator, motion picture
33231	Buyer, merchandise (wholesale or retail trade)	35213	Camera operator, television
33232	Buyer, supply requirements	35212	Camera operator, video
		73119	Camera repairer
		73215	Cameraman, photogravure
		73219	Cameraman, xerography (offset printing)
		51509	Camp supervisor
		81319	Candle making machine operator
		75291	Cane furniture maker
		94102	Canteen assistant
		51202	Canteen cook
		14123	Canteen keeper (working proprietor)
		52422	Canvasser
		52422	Canvasser, sales
		81830	Capping and sealing machine operator
		51311	Captain (catering service)
		51311	Captain waiter
		31531	Captain, aircraft (air transport)
		31592	Captain, port
		51311	Captain, restaurant
		31521	Captain, ship
		91220	Car cleaner
		83299	Car delivery driver
		83222	Car driver (private service)
		96254	Car park attendant
		52309	Car park cashier
		31579	Car park supervisor
		91220	Car polisher
		91220	Car washer
		72311	Car, motor, mechanic
		81719	Carbon coating machine operator (papermaking)
		81660	Carbonation man (sugar refining)
		81314	Carbon-monoxide plant operator
		75119	Carcass washer
		72249	Card grinder (textile)
		81432	Cardboard lining machine operator
		81432	Cardboard-press operator
		75390	Carder, fibre
		22121	Cardiologist

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83221	Cab driver
51112	Cabin attendant, aircraft
51112	Cabin attendant, ship
51112	Cabin steward, aircraft
51112	Cabin steward, ship
75221	Cabinet maker (furniture)
72152	Cable and rope splicer (general)
83439	Cable car operator
81131	Cable driller, (oil and gas wells)
74132	Cable jointer (electric cable)
74223	Cable jointer, telephone and telegraph
74139	Cable layer, underground
93100	Cable puller (cable laying)
72159	Cable railway rigger
74131	Cableman, electric power (overhead)
74139	Cableman, electric power (underground)
74131	Cableman, electric traction (overhead)
74223	Cableman, telephone and telegraph
83509	Cable-ship hand
21652	Cadastral surveyor
21529	CAD-CAM engineer
96259	Caddie
96259	Caddie, golf
14123	Café keeper (working proprietor)
14121	Café manager
94102	Cafeteria assistant
51202	Cafeteria cook
52492	Cafeteria counter attendant
14123	Cafeteria keeper (working proprietor)
41109	Cage secretary

22132	Cardiothoracic surgeon	41109	Casino operations administrator
96261	Caretaker, building	41109	Casino operations administrator assistant
31595	Cargo officer, air	14321	Casino operations manager
31574	Cargo superintendent, ship's	41109	Casino operations scheduling clerk
26513	Caricaturist	41109	Casino operations slot administrator
71151	Carpenter (general)	51702	Casino shuffler
71151	Carpenter, bench	35290	Casino surveillance technician
71151	Carpenter, construction	75229	Cask maker
71151	Carpenter, maintenance	81141	Cast concrete product making machine operator
71151	Carpenter, ship	81149	Cast stone making machine operator
71151	Carpenter, stage and studio	81141	Caster, concrete product
71151	Carpenter, theatre	73213	Caster, electrotype
71290	Carpet layer	81219	Caster, metal
75390	Carpet maker (hand knotting)	73141	Caster, pottery and porcelain
75390	Carpet weaver (hand)	73212	Caster, stereotype
81521	Carpet weaving loom operator	81249	Casting finisher
21654	Cartographer, marine	81420	Casting machine operator (plastic goods)
31189	Cartographical draughtsman	73211	Casting machine operator (printing type)
31189	Cartographical draughtsperson	81212	Casting machine operator, centrifugal
81431	Carton and paper box maker	81214	Casting machine operator, continuous
26513	Cartoonist	81213	Casting machine operator, die
26513	Cartoonist, motion picture	26229	Cataloguer
34399	Carver, ivory	72149	Catcher, rivet
71131	Carver, stone	14122	Catering services manager
71131	Carver-setter, monument	71312	Ceiling paperhanger
81739	Carving machine operator (woodworking)	26521	Cellist
81739	Carving machine setter-operator (woodworking)	81439	Cellophane bag making machine operator
81220	Case hardener, metal	71143	Cement finisher
81139	Caser (oil and gas wells)	81312	Cement furnaceman
26351	Caseworker, child welfare	71144	Cementer (oil and gas wells)
26356	Caseworker, family	81212	Centrifugal casting machine operator
26351	Caseworker, social welfare	81313	Centrifugal separator operator
52303	Cash accounting clerk	81660	Centrifuge operator (sugar refining)
52302	Cash desk cashier	73162	Ceramic decorator
52302	Cashier (general)	73162	Ceramic dipper
42111	Cashier, bank	73162	Ceramic enameller
52302	Cashier, booking office	81313	Ceramic filter operator
52302	Cashier, box-office	73162	Ceramic glazer
52309	Cashier, car park	81811	Ceramic kiln operator
52302	Cashier, cash desk		
52303	Cashier, casino		
52302	Cashier, check-out (self-service store)		
52303	Cashier, office		
52302	Cashier, restaurant		
52303	Cashier, retail		
52302	Cashier, store		
81139	Casing puller (oil and gas wells)		
24111	Casino accountant		

73162	Ceramic painter	81311	Chemical mixing machine operator
73162	Ceramic spray painter	81314	Chemical reactor operator
21495	Ceramics technologist	81312	Chemicals cooker
81649	Cereal processing machine operator	81311	Chemicals crusher operator
73139	Chain maker (precious metal)	81311	Chemicals miller
14201	Chain store manager	81312	Chemicals roaster
93100	Chainman (surveying)	21130	Chemist (general)
83439	Chair-lift operator	21343	Chemist, biological
11122	Chairman (statutory board)	21130	Chemist, detergents
11201	Chairman, company	21130	Chemist, dye
91121	Chambermaid	21130	Chemist, food
29011	Chaplain	21130	Chemist, glass
71000	Chargehand (construction)	21130	Chemist, leather
81219	Charger, furnace (metal melting and reheating)	21130	Chemist, metallurgical
81211	Charger, furnace (ore smelting and refining)	21130	Chemist, paint
81312	Char-kiln tender (chemical and related processes)	21130	Chemist, petroleum
24111	Chartered accountant	21130	Chemist, pharmaceutical
31593	Charterer, ship	21130	Chemist, plastics
83222	Chauffeur, private motor car	21130	Chemist, polymers
31535	Check pilot	21130	Chemist, quality control
91210	Checker (laundry service)	21130	Chemist, rubber
82131	Checker, electrical products (quality assurance)	21130	Chemist, textiles
82131	Checker, electronic products (quality assurance)	31111	Chemistry technician
51390	Checker, food (catering service)	81689	Cheroot making machine operator
82132	Checker, mechanical products (quality assurance)	75299	Chick maker
52302	Check-out cashier (self-service store)	61221	Chicken farmer
51201	Chef de cuisine (restaurant)	40000	Chief clerk (general office)
51201	Chef de partie (restaurant)	26422	Chief editor (newspaper)
81319	Chemical bleacher operator	31511	Chief engineer (ship)
21451	Chemical engineer (general)	31511	Chief engineer officer (ship)
21453	Chemical engineer (petrochemicals)	31511	Chief engineer, ship's
21452	Chemical engineer (petroleum)	11201	Chief executive (company)
31005	Chemical engineer, assistant	11122	Chief executive (statutory board)
31161	Chemical engineering technician (general)	13301	Chief information officer (IT)
31162	Chemical engineering technician (natural gas)	26120	Chief justice
31163	Chemical engineering technician (petrochemicals)	11203	Chief operating officer
31162	Chemical engineering technician (petroleum)	13301	Chief security officer (IT)
31111	Chemical laboratory technician	51502	Chief steward (hotel)
		51111	Chief steward (ship)
		13301	Chief technology officer (IT)
		51202	Chief cook
		53113	Child care assistant
		34129	Child care inspector
		13410	Child care services manager
		36100	Child care teacher
		53113	Child care worker
		53114	Child residential care assistant
		26351	Child welfare caseworker

32300	Chinese herbalist	21432	Civil engineer (sewerage)
75190	Chinese medicated wine maker	21424	Civil engineer (soil mechanics)
22301	Chinese physician	21429	Civil engineer (tunnel construction)
22302	Chinese physician (acupuncturist)	31001	Civil engineer, assistant
22301	Chinese sinseh	71000	Civil engineering construction general foreman
81711	Chipper, log (machine)	71000	Civil engineering construction supervisor and general foreman
32300	Chiropodist	21421	Civil engineering consultant (general)
32592	Chiropractor	13232	Civil engineering contractor (working proprietor)
81319	Chlorine gas maker	31184	Civil engineering draughtsman
81314	Chlorine plant operator	31184	Civil engineering draughtsperson
81625	Chocolate making machine operator	31121	Civil engineering technician (general)
81625	Chocolate making press operator	26111	Civil lawyer
26523	Choirmaster	11121	Civil service commissioner
26532	Choreographer	71193	Cladding and curtain wall erector
26531	Chorus dancer	33152	Claims adjuster
26523	Chorus master	43122	Claims clerk, insurance
73111	Chronometer assembler	33152	Claims inspector
96261	Church janitor	81660	Clarifier operator (sugar refining)
75190	Chutney maker	75390	Clarifier, textile fibre
81689	Cigar making machine operator	81679	Clarifier, wine
81689	Cigarette machine catcher	73149	Clay extruding press operator
81681	Cigarette making machine operator	81819	Clay fitter press operator
59001	Cinema film projectionist	81819	Clay grinder
14323	Cinema manager	81819	Clay millman
59001	Cinema projectionist	81819	Clay mixer
26543	Cinematographer	91122	Cleaner (hotel)
26543	Cinematography director	91132	Cleaner (industrial establishment)
81732	Circular sawyer (precision)	91129	Cleaner (restaurant)
34421	Circus comic	91292	Cleaner, aircraft
21429	Civil engineer (aerodrome construction)	91292	Cleaner, aircraft cabin
21429	Civil engineer (bridge construction)	71332	Cleaner, building exterior
21423	Civil engineer (building construction)	91220	Cleaner, bus
21429	Civil engineer (dock and harbour construction)	91220	Cleaner, car
21429	Civil engineer (dredging)	91210	Cleaner, carpet
21421	Civil engineer (general)	91132	Cleaner, factory
21429	Civil engineer (highway and street construction)	91122	Cleaner, hotel
21429	Civil engineer (hydraulics)	81248	Cleaner, metal
21429	Civil engineer (hydrographic)	91220	Cleaner, motor vehicle
21424	Civil engineer (piling)	91139	Cleaner, MRT station
21429	Civil engineer (railway construction)	91131	Cleaner, office
21429	Civil engineer (road construction)	96130	Cleaner, park
21432	Civil engineer (sanitary)	91293	Cleaner, railway carriage
		91139	Cleaner, recreation centre
		91291	Cleaner, ship
		91291	Cleaner, ship tank

91139	Cleaner, sports complex	43122	Clerk, insurance
81248	Cleaner, ultrasonic (metal)	43211	Clerk, inventory (stock control)
91230	Cleaner, window	43129	Clerk, investment
12199	Cleaning services manager	43115	Clerk, invoice
91000	Cleaning supervisor	43219	Clerk, inward freight
91129	Clearer, table (catering service)	44170	Clerk, judge's
33311	Clearing agent	44170	Clerk, law
33311	Clearing and forwarding agent	43112	Clerk, ledger
43119	Clearing house clerk (banking)	44170	Clerk, legal
41101	Clerical assistant	44110	Clerk, library
40000	Clerical supervisor (general)	43221	Clerk, material planning
44170	Clerk of court	43129	Clerk, mortgage
31125	Clerk of works	41101	Clerk, office (general)
43112	Clerk, accounts	43221	Clerk, order (material planning)
44110	Clerk, acquisitions (library)	43239	Clerk, parcel (railway)
43122	Clerk, adjustment (insurance)	43114	Clerk, payroll
43119	Clerk, auction	41103	Clerk, personnel
43113	Clerk, audit	43221	Clerk, planning (materials supply)
43121	Clerk, bank operations	43222	Clerk, planning (production)
44170	Clerk, barrister's	43122	Clerk, policy (insurance)
43115	Clerk, billing	42112	Clerk, postal service counter
43123	Clerk, bonds	44170	Clerk, probate
44110	Clerk, book loan	43222	Clerk, production planning
42210	Clerk, booking (travel agency)	43116	Clerk, purchasing
43112	Clerk, bookkeeping	43219	Clerk, receiving and despatching
43119	Clerk, bookmaker's	41103	Clerk, records (personnel department)
43123	Clerk, brokerage	43211	Clerk, records (stock control)
43122	Clerk, broker's (insurance)	43119	Clerk, remittance
52303	Clerk, cash accounting	42210	Clerk, reservations (travel agency)
40000	Clerk, chief (general office)	43239	Clerk, routing (freight)
43119	Clerk, clearing house (banking)	41109	Clerk, safe deposit
43149	Clerk, coding (data processing)	43114	Clerk, salaries
43129	Clerk, collateral	43115	Clerk, sales
44170	Clerk, conveyancing	43221	Clerk, schedule (material planning)
43222	Clerk, co-ordinating (production planning)	43222	Clerk, schedule (production planning)
41109	Clerk, correspondence	43123	Clerk, securities
43119	Clerk, cost	43231	Clerk, shipping
43119	Clerk, cost computing	43231	Clerk, shipping (freight)
42112	Clerk, counter (post office)	44170	Clerk, solicitor's
43129	Clerk, credit	41103	Clerk, staff records
43151	Clerk, data processing control	43141	Clerk, statistical (general)
43219	Clerk, despatching and receiving	43211	Clerk, stock control
42249	Clerk, enquiries	43211	Clerk, stock records
41102	Clerk, filing	43212	Clerk, storeroom
43129	Clerk, finance	43212	Clerk, stores
43219	Clerk, freight receiving	43212	Clerk, supply
41101	Clerk, general office	43219	Clerk, tally
44110	Clerk, index (library)		
42249	Clerk, information		
42249	Clerk, inquiries		

43119	Clerk, tax	81719	Coating machine operator, paper
52302	Clerk, ticket (booking office)	81419	Coating machine operator, rubber
42210	Clerk, ticketing (travel agency)	81243	Coating machine operator, wire
43149	Clerk, traffic	75363	Cobbler
43239	Clerk, traffic (freight)	81678	Cocoa bean roasting machine operator
42210	Clerk, travel agency	81678	Cocoa grinding machine operator
42210	Clerk, travel reservations	61900	Coconut farm worker
42210	Clerk, travel service	61900	Coconut farmer
41312	Clerk, typing	81653	Coconut oil miller
43114	Clerk, wages	43149	Coder, statistical
43212	Clerk, warehouse	43149	Coding clerk (data processing)
75361	Clicker cutter (shoemaking)	75151	Coffee and tea taster
75361	Clicking machine operator (shoemaking)	81678	Coffee bean roasting machine operator
21120	Climatologist	81677	Coffee blender
42243	Clinic receptionist	81677	Coffee blending machine operator
13420	Clinical director	81678	Coffee grinding machine operator
32201	Clinical nurse	51202	Coffee house cook
22146	Clinical pathologist	94102	Coffee shop assistant
26340	Clinical psychologist	14123	Coffee shop keeper (working proprietor)
81722	Clipping machine operator (veneer cutting)	75151	Coffee taster
96259	Cloakroom attendant	75229	Coffin maker
73111	Clock and watch assembler	72339	Coin machine repairer and servicer
73112	Clock and watch repairer	43129	Collateral clerk
75229	Clock case maker	81842	Collating machine operator (bookbinding)
75229	Clog maker	42149	Collection man (coin machines and meters)
81549	Cloth calenderer	42141	Collector, bill
81599	Cloth doubling and winding machine operator	42141	Collector, debt
75390	Cloth grader	43142	Collector, public opinion
73149	Cloth maker, abrasive-coated	96111	Collector, refuse
81543	Cloth shrinker	42149	Collector, rent
81543	Cloth washer (textile making)	96259	Collector, ticket
81521	Cloth weaver	42149	Collector, toll
81521	Cloth weaving loom operator	42149	Collector, turnstile
34351	Clothes designer	81320	Colour printer operator (photography)
34421	Clown	26421	Columnist
72312	Coach body builder	75390	Comber, fibre
75229	Coach body builder (wood)	81719	Combiner operator (papermaking)
83311	Coach driver	34421	Comic, circus
34221	Coach, athletic	31531	Commercial airline pilot
34221	Coach, games	34391	Commercial artist
34221	Coach, sports	34391	Commercial illustrator
81149	Coal crusher operator		
21469	Coal mining engineer		
31199	Coal mining technician		
62220	Coastal waters fisherman		
81331	Coater, tablet		
81331	Coating machine operator (tablets and pills)		

12211	Commercial manager (manufacturing or mining company)	74222	Computer and related equipment fitter
34310	Commercial photographer	74222	Computer and related equipment mechanic
34352	Commercial products designer	35120	Computer database assistant
23109	Commercial school teacher	35120	Computer engineering assistant
33229	Commercial traveller	34362	Computer games designer
26544	Commercials, director of	25123	Computer games developer
26544	Commercials, producer of	26541	Computer games producer
11121	Commissioned police officer	21522	Computer hardware engineer
11121	Commissioner of inland revenue	35120	Computer helpdesk operator
11121	Commissioner, high (government)	35110	Computer high-speed printer operator
33241	Commodities broker	35120	Computer network technician
33114	Commodities broker (financial)	13303	Computer operations and network manager
33114	Commodities trader (financial)	35110	Computer operator
33114	Commodities trading advisor	35110	Computer peripheral equipment operator
33114	Commodities trading advisor's representative	25140	Computer programmer
33114	Commodity futures broker	35120	Computer programming assistant
33114	Commodity futures pool operator	33222	Computer sales engineer
33114	Commodity futures pool operator's representative	33222	Computer sales representative
34129	Community development worker	25121	Computer software engineer
32595	Community health worker	25220	Computer systems administrator
34129	Community service worker	21522	Computer systems engineer
24111	Company accountant	35120	Computer systems technician
11201	Company chairman	36203	Computer teacher (computer training school)
11202	Company director	35120	Computer technician
22149	Company doctor	26524	Concert singer
34412	Compere	96261	Concierge (apartment house)
34412	Compere, stage	96211	Concierge, hotel
34412	Compere, television	33462	Conciliator, labour
26522	Composer	33462	Conciliator, labour management relations
26522	Composer, music	71149	Concrete curer
73211	Composing machine operator (linotype)	71143	Concrete finisher
71220	Composition tile layer	83425	Concrete finishing machine operator (road paving)
73211	Compositor	71142	Concrete form worker
81311	Compounder (chemical and related processes)	81144	Concrete mixer operator
81871	Compounder (petroleum refining)	81144	Concrete mixing plant operator
81311	Compounder, resin (chemical and related processes)	83425	Concrete paving machine operator
81419	Compounder, rubber	81141	Concrete product caster
81420	Compression moulding machine operator, plastics	81145	Concrete pump operator
81852	Compressor operator (air)	72142	Concrete reinforcing iron worker
81852	Compressor operator (gas)	71142	Concrete shutterer
13301	Computer and information systems manager	83329	Concrete truck driver
		71141	Concrete, reinforced (general)

81629	Condensed milk making machine operator	81219	Continuous casting machine operator
75190	Conditioner, leaf (tobacco)	81215	Continuous mill roller (steel)
26523	Conductor, band	81214	Continuous rod casting machine operator (non-ferrous metal)
51129	Conductor, bus	81314	Continuous still operator (chemical processes, except petroleum)
51129	Conductor, ferryboat	81660	Continuous sugar refining machine operator
51129	Conductor, hovercraft	34423	Contortionist
26523	Conductor, orchestra	13232	Contractor, building (working proprietor)
26523	Conductor, vocal group	13232	Contractor, civil engineering (working proprietor)
81626	Confectionery making machinery operator (sugar confectionery)	33330	Contractor, employment
75123	Confectionery mixer (flour)	33330	Contractor, labour
53112	Confinement nanny	13232	Contractor, renovation (working proprietor)
34422	Conjurer	13232	Contractor, road building (working proprietor)
26213	Conservator (art works)	26524	Contralto
35110	Console operator (electronic data processing)	31540	Controller, air traffic
54121	Constable	12111	Controller, financial
54121	Constable, police	31560	Controller, sea traffic
71151	Construction carpenter	81871	Controlman (petroleum refining)
75402	Construction diver	33320	Convention co-ordinator
31129	Construction inspector	33320	Convention organiser
71152	Construction joiner	81314	Converter operator (chemical processes, except petroleum)
93100	Construction labourer	34110	Conveyance executive
72333	Construction machinery mechanic	44170	Conveyancing clerk
13231	Construction manager	83439	Conveyer operator
72143	Constructional steel erector	51202	Cook, cafeteria
X5000	Consul general, foreign	51202	Cook, canteen
X5000	Consular official, foreign	51202	Cook, coffee house
24212	Consultant, business	51202	Cook, commis
24212	Consultant, business advisory services	51201	Cook, hotel
24232	Consultant, executive search	51202	Cook, pastry (restaurant)
24231	Consultant, human resource	51202	Cook, private service
25112	Consultant, IT business	51202	Cook, restaurant
25112	Consultant, IT business process	51202	Cook, ship's
24211	Consultant, management	81312	Cooker (chemical and related processes)
24320	Consultant, public relation	81312	Cooker, chemicals
33493	Consumer banking branch operations and processing executive	81673	Cooker, malt
33120	Consumer banking credit control executive	81629	Cooler operator (dairy products)
42246	Contact centre information clerk	81855	Cooling plant operator
81890	Container filling machine operator (except compressed and liquefied gas)	75229	Cooper
83322	Container truck driver	43222	Co-ordinating clerk (production planning)
26415	Continuity and script editor		
26419	Continuity writer		

33320	Co-ordinator, convention	26354	Counsellor, rehabilitation
33320	Co-ordinator, exhibition	26359	Counsellor, student vocational
43151	Co-ordinator, production (computer operations)	26359	Counsellor, vocational guidance
33222	Co-ordinator, technical sales	52301	Count supervisor
31531	Co-pilot	42112	Counter clerk, post office
81149	Copper floatation man	83121	Coupler, yard (railway)
72139	Coppersmith	51604	Courier (despatch)
81653	Copra miller	51131	Courier (travel)
61900	Copra producer (plantation)	51601	Courier service supervisor
26413	Copywriter, advertising	39102	Court interpreter
26414	Copywriter, technical	41202	Court reporter
72112	Core-blower operator	83501	Coxswain, lifeboat
81723	Core-laying machine operator (plywood manufacture)	36202	Crafts teacher (private tuition)
72112	Coremaker	83431	Crane operator (bridge or gantry crane) (non-port)
72112	Coremaker, tube	83432	Crane operator (bridge or gantry crane) (port)
61900	Corn farmer	83431	Crane operator (floating crane)
81630	Corn milling machine operator	83431	Crane operator (locomotive crane)
26120	Coroner	83431	Crane operator (mobile crane)
33493	Corporate banking cash management executive	83431	Crane operator (stationary jib- crane)
33120	Corporate banking credit control executive	83431	Crane operator (tower crane)
33493	Corporate banking structured & project financing executive	93201	Crater (hand)
33493	Corporate banking transactional services executive	83431	Crawler crane operator
33450	Corporate communications officer	83424	Crawler drill operator
33493	Corporate finance origination, structuring & advisory executive	81890	Crayon press machine operator
33225	Corporate finance sales & distribution executive	81431	Creasing and cutting press operator (paper box)
12130	Corporate planning manager	26519	Creative artist (glass and ceramics)
12112	Corporate services manager	24311	Creative director (advertising)
41109	Correspondence clerk	24131	Credit analyst
26421	Correspondent, newspaper	43129	Credit clerk
81719	Corrugating machine operator (papermaking)	33120	Credit officer
51421	Cosmetologist	96259	Crematorium attendant
24111	Cost accountant	93209	Crepe mill operator
24111	Cost and works accountant	81719	Creping machine operator (papermaking)
43119	Cost clerk	33464	Crewing officer (ship)
43119	Cost computing clerk	62220	Crewman, trawler
40000	Cost section supervisor	62220	Crewman, tuna boat
34351	Costume designer	62220	Crewman, whaler
34351	Costume designer (film)	83509	Crewman, yacht
34351	Costume designer (stage)	26421	Crime reporter
34351	Costume designer (studio)	26111	Criminal lawyer
26355	Counsellor, drugs and alcohol	26321	Criminologist
26356	Counsellor, family	81719	Crinkling machine operator (papermaking)
		34129	Crisis intervention worker

- 26421 Critic
 26421 Critic, art
 26421 Critic, book
 26421 Critic, drama
 26421 Critic, film
 26421 Critic, literary
 26421 Critic, music
 75390 Crocheter (hand)
 81522 Crocheting machine operator
 62213 Crocodile farm worker
 62213 Crocodile farmer
 51943 Crocodile trainer
 51702 Croupier
 81811 Crucible maker (saggars)
 81311 Crusher operator (chemical and related processes)
 81652 Crusher operator (edible oil processing)
 81149 Crusher operator (minerals)
 73161 Crystal glass cutter (decorative)
 81660 Crystalliser operator (sugar refining)
 14330 Cultural centre manager
 81211 Cupola furnaceman
 29019 Curate
 26212 Curator, art gallery
 26212 Curator, museum
 71149 Curer, concrete
 75119 Curer, fish
 75119 Curer, meat
 43121 Currency sorting machine operator
 75390 Currier, leather
 71193 Curtain wall erector
 42246 Customer contact centre information clerk
 12220 Customer relations manager (hotel)
 42245 Customer service clerk
 12241 Customer service manager
 33510 Customs inspector
 33510 Customs officer
 72249 Cutlery and tool grinder (except machine-tool)
 71131 Cutter and finisher, stone
 73132 Cutter and polisher, gem
 73132 Cutter and polisher, jewel
 71220 Cutter and setter, mosaic
 75361 Cutter, clicker (shoemaking)
 73161 Cutter, crystal glass (decorative)
 72122 Cutter, flame (metal cutting machine)
 75321 Cutter, garment
 73159 Cutter, glass
 73161 Cutter, glass (crystal)
 73153 Cutter, glass (optical glass)
 73161 Cutter, intaglio (glass engraving)
 75119 Cutter, meat
 73153 Cutter, optical glass
 73139 Cutter, precious metal
 75361 Cutter, shoe
 75390 Cutter, thread
 61900 Cutter, timber (forestry)
 81419 Cutter, tread (tyre making)
 81419 Cutter, tyre tread
 81722 Cutter, veneer
 73161 Cutter-shaper, glass (decorative)
 81431 Cutting and creasing press operator (paper box)
 72249 Cutting instrument sharpener
 81626 Cutting machine operator (sugar confectionery)
 81220 Cyanide hardener
 34210 Cycle racer
 83210 Cyclist, motor (delivery man)
 81872 Cylinder filler (compressed and liquefied gases)
 81256 Cylinder honer
 81841 Cylinder pressman (printing)
 81872 Cylinder tester (compressed and liquefied gases)
 21329 Cytogenetist
 21319 Cytologist
 32120 Cytotechnician
- D**
- 61210 Dairy farm worker
 61210 Dairy farmer
 81622 Dairy product pasteurising machine operator
 81621 Dairy product processing machine operator (general)
 31423 Dairy technician
 26523 Dance band leader
 59009 Dance hostess
 36205 Dance Instructor (extracurriculum)

26531	Dancer	32511	Dental nurse, school
26531	Dancer, ballet	32143	Dental prosthesis maker and repairer
26531	Dancer, ballroom	32143	Dental technician
26531	Dancer, chorus	22611	Dentist, general
36205	Dancing teacher (private tuition)	22612	Dentist, specialised
81320	Darkroom man (black-and-white developing)	42243	Dentist's receptionist
81320	Darkroom man (colour developing)	32143	Denturist
81320	Darkroom man (photo printing)	11121	Department head (government)
25230	Data communication analyst	14201	Departmental store manager
41320	Data entry clerk	31599	Depot superintendent, railway
41320	Data entry operator	31599	Depot superintendent, road transport
43151	Data processing control clerk	11121	Deputy secretary, (government)
74222	Data processing equipment fitter	22122	Dermatologist
25211	Database administrator	72159	Derrick-boat operator
25212	Database architect	81131	Derrickman (oil and gas wells)
25212	Database designer	21445	Designer, aircraft
51702	Dealer (gaming)	31173	Designer, automation
33112	Dealer, foreign exchange	34351	Designer, clothes
14203	Dealer, retail (working proprietor)	34352	Designer, commercial product
33111	Dealer, securities	34362	Designer, computer games
13459	Dean (institution of higher learning)	34351	Designer, costume
42141	Debt collector	34351	Designer, costume (film)
31522	Deck officer, ship	34351	Designer, costume (stage)
73162	Decorator (ceramics)	34351	Designer, costume (studio)
73162	Decorator, aerographing (ceramics)	25212	Designer, database
73162	Decorator, freehand painting (ceramics)	34351	Designer, dress
34321	Decorator, interior	21610	Designer, environmental
34324	Decorator, set (motion pictures)	34323	Designer, exhibition
73162	Decorator, spray painting (ceramics)	34351	Designer, fashion
73162	Decorator-painter, glass	34352	Designer, furniture
81133	Deep-boring machine operator	34362	Designer, games
62220	Deep-sea fisherman	34351	Designer, garment
62220	Deep-sea fishery worker	34361	Designer, graphic
81248	Degreaser (metal)	34352	Designer, industrial product
81619	Dehydrator, foodstuffs	21529	Designer, integrated circuit
26352	Delinquency prevention social worker	34321	Designer, interior
83210	Delivery man, motor-cycle	34321	Designer, interior decoration
52130	Delivery man, newspaper	34352	Designer, jewellery
21220	Demographer	34322	Designer, landscape
71192	Demolition worker	21446	Designer, motor car
32512	Dental health therapist	34352	Designer, package
73119	Dental instrument maker and repairer	26543	Designer, production (film)
32511	Dental nurse	26543	Designer, production (stage)
		26543	Designer, production (studio)
		34324	Designer, scenery
		34324	Designer, stage set
		25111	Designer, systems (computer)
		34352	Designer, textile
		34391	Designer, typographical

34323	Designer, window display	81242	Dipper, tin
81859	Desilting basin operator	81242	Dipper, zinc
51604	Despatch worker	73162	Dipping machine attendant (ceramics decorating)
43219	Despatching and receiving clerk	81419	Dipping machine operator, rubber
81871	Desulphurisation treater (petroleum refining)	81242	Dip-plater
54191	Detective (private)	81841	Direct lithographic pressman
54191	Detective, house	73229	Direct lithographic transferrer
54191	Detective, store	26544	Director of commercials
21130	Detergents chemist	13420	Director of nursing
25123	Developer, computer games	35219	Director of photography (motion picture)
25123	Developer, multimedia	26542	Director, animation
81320	Developer, photograph	26543	Director, art
81320	Developer, photographic film	12212	Director, business development
81320	Developer, photographic print	26543	Director, cinematography
25121	Developer, software	11202	Director, company
25122	Developer, web	11202	Director, executive (company)
81320	Developer, x-ray film	51931	Director, funeral
81320	Developing machine operator (motion picture)	12211	Director, international marketing
91210	Dhoby	26543	Director, lighting
22142	Diagnostic radiologist	11201	Director, managing
73132	Diamond polisher, industrial	26542	Director, motion picture
73132	Diamond sawyer, industrial	26529	Director, music
72229	Diamond-pointed tool maker	26523	Director, music (band)
81213	Die casting machine operator	26523	Director, music (choir)
72229	Die finisher	26543	Director, music (concert)
72221	Die maker	26543	Director, music (film)
81259	Die sinking machine operator (metalworking)	26523	Director, music (orchestra)
81259	Die sinking machine setter- operator (metalworking)	26543	Director, music (radio)
72212	Die-press operator (forging)	26543	Director, music (stage)
73141	Die-presser, pottery and porcelain	26543	Director, music (theatre)
72339	Diesel engine mechanic (except motor vehicle)	26543	Director, music (TV)
32521	Dietitian	26529	Director, musical programme
32521	Dietitian, sports	26542	Director, radio
32521	Dietitian, therapeutic	26542	Director, stage
81711	Digester operator	26542	Director, television
93100	Digger, ditch	26542	Director, theatrical
96299	Digger, grave	11121	Director-general
93100	Digger, trench	34129	Disability services worker
51312	Dining car attendant (railway)	34414	Disc jockey
51312	Dining salon steward (ship)	14325	Discotheque manager
11121	Diplomatic representative (government)	14201	Discount store manager
X5000	Diplomatic representative, foreign	94104	Dishwasher
73162	Dipper (ceramics)	72339	Dispensing machine repairer and servicer
75212	Dipper (wood treating)	32542	Dispensing optician
		34323	Display artist
		34324	Display decorator
		81314	Distillation operator (chemical processes, except petroleum)

81871	Distiller (petroleum refining)	31186	Draughtsman, marine
81314	Distiller, alcohol	31186	Draughtsman, marine engineering
81314	Distiller, perfume	31182	Draughtsman, mechanical
81314	Distiller, turpentine	26112	Draughtsman, parliamentary
21512	Distribution engineer (electric power)	31184	Draughtsman, structural engineering
13241	Distribution manager	31189	Draughtsman, topographical
26120	District court judge	31189	Draughtsman, ventilation systems
93100	Ditch digger	31181	Draughtsperson (general)
75402	Diver, construction	31182	Draughtsperson, aeronautical
21429	Dock and harbour construction engineer	31185	Draughtsperson, architectural
96269	Dock gateman	31189	Draughtsperson, cartographical
93331	Docker	31184	Draughtsperson, civil engineering
31591	Dockmaster, dry dock	31183	Draughtsperson, electrical
22110	Doctor (general medical practice)	31183	Draughtsperson, electronics
22149	Doctor (specialised medical practice)	31189	Draughtsperson, geological
22149	Doctor, company	31189	Draughtsperson, heating systems
42243	Doctor's receptionist	31182	Draughtsperson, jig, tool and die
51945	Dog trainer	31186	Draughtsperson, marine
82191	Doll and stuffed toy maker	31186	Draughtsperson, marine engineering
91301	Domestic worker	31182	Draughtsperson, mechanical
71290	Door installer	31184	Draughtsperson, structural engineering
96262	Doorman	31189	Draughtsperson, topographical
52422	Door-to-door salesman	31189	Draughtsperson, ventilation systems
51503	Dormitory supervisor	83431	Drawbridge operator
81512	Doubler, thread and yarn	73159	Drawer, glass tube
81512	Doubling machine operator (thread and yarn)	81232	Drawer, pipe (seamless)
75122	Dough maker (bread)	81232	Drawer, seamless pipe and tube
75122	Dough mixer (bread)	81232	Drawer, tube (seamless)
83421	Dragline bucket operator	81231	Drawer, wire
71263	Drain layer	81819	Drawing machine operator, glass
26421	Drama critic	83423	Dredge operator
36206	Drama instructor (extracurriculum)	83509	Dredger crewman
36206	Drama teacher(private tuition)	21429	Dredging engineer
26550	Dramatic actor	34351	Dress designer
26411	Dramatist	36202	Dress making teacher (other than vocational school)
31181	Draughtsman (general)	75119	Dresser, meat (general)
31182	Draughtsman, aeronautical	75119	Dresser, poultry
31185	Draughtsman, architectural	81630	Dresser, seed (mustard milling)
31189	Draughtsman, cartographical	75119	Dresser, tripe
31184	Draughtsman, civil engineering	51419	Dresser, wig
31183	Draughtsman, electrical	75310	Dressmaker
31183	Draughtsman, electronics	81312	Drier operator (chemical and related processes)
31189	Draughtsman, geological	81629	Drier operator (dairy products)
31189	Draughtsman, heating systems		
31189	Draughtsman, interior design		
31182	Draughtsman, jig, tool and die		

81619	Drier operator (foodstuffs)	83425	Driver, road roller
75211	Drier, kiln (wood)	83129	Driver, shunting-engine
81549	Drier, textile	83425	Driver, steam roller
81132	Driller and borer, well (except oil and gas wells)	83329	Driver, tanker
81131	Driller, cable (oil and gas wells)	83425	Driver, tar spreading machine
73159	Driller, glass	83221	Driver, taxi
81139	Driller, jackhammer (mine and quarry)	83322	Driver, trailer truck
73149	Driller, pottery	83110	Driver, train
73139	Driller, precious metal	83421	Driver, trench digging machine
81131	Driller, rotary (oil and gas wells)	93310	Driver, tricycle (not motorised)
71131	Driller, stone	83321	Driver, truck
81132	Driller, well (except oil and gas)	83223	Driver, van
81132	Driller, well (water well)	83329	Driver, water-tank
83424	Drilling machine operator	51950	Driving instructor
81255	Drilling machine operator (metalworking)	51950	Driving tester
81139	Drilling machine operator (mine and quarry)	72212	Drop forger
81255	Drilling machine setter-operator (metalworking)	72219	Drop-hammer operator
94102	Drinks stall assistant	22621	Druggist
83324	Driver, airport mobile equipment	73120	Drum maker
83291	Driver, ambulance	26521	Drummer
83422	Driver, bulldozer	81591	Dry cleaning machine operator
83311	Driver, bus	31591	Dry dock master
83221	Driver, cab	31591	Dry dock port master
83222	Driver, car (private service)	75211	Dry kiln operator
83299	Driver, car delivery	71230	Dry wall installer
83311	Driver, coach	75190	Dryer (tobacco)
83425	Driver, concrete paving machine	81591	Drying tumbler operator
83322	Driver, container truck	81811	Dry-kiln operator (brick and tile)
83429	Driver, dumper	81811	Dry-kiln operator (pottery and porcelain)
83421	Driver, excavating machine	34413	Dubbing artiste
83323	Driver, fire engine	35219	Dubbing machine operator
72219	Driver, forge hammer	61221	Duck farmer
83449	Driver, lifting truck	83429	Dumper driver
83321	Driver, lorry	81841	Duplicating machine operator
83223	Driver, mail van	81841	Duplicating machine operator, braille
83490	Driver, mechanical sweeper	21130	Dye chemist
34210	Driver, motor-racing	81542	Dyeing machine operator (garments)
83210	Driver, motor-tricycle (goods)	81542	Dyeing machine operator (textile)
83110	Driver, MRT train	81542	Dyeing machine operator (thread and yarn)
93310	Driver, pedal vehicle	75390	Dyer and stainer, leather
83299	Driver, pick-up	81542	Dyer, fabric
83223	Driver, postal van	81542	Dyer, garment
83322	Driver, prime mover	81542	Dyer, hosiery
83129	Driver, railway engine	81542	Dyer, knitwear
83329	Driver, refuse truck	75390	Dyer, leather
83425	Driver, road grader and scraper	75390	Dyer, pelt
		81542	Dyer, textile fibre

- 81542 Dyer, yarn
74129 Dynamo fitter
- E**
- 22148 Ear, nose throat (ENT) surgeon
83426 Earth boring machine operator (construction)
72339 Earth moving equipment fitter-assembler
72333 Earth moving equipment mechanic
72339 Earth-moving equipment fitter
21332 Ecologist
26310 Econometrician
21220 Economics statistician
26310 Economist (general)
26310 Economist (specialised)
29090 Economist, home
81729 Edge gluer (veneer sheets)
73159 Edge grinder, glass
72242 Edge tool sharpener
75361 Edge trimmer (shoe finishing)
26416 Editor, book
26422 Editor, chief (newspaper)
26415 Editor, continuity and script
26422 Editor, fashion
26422 Editor, feature
26422 Editor, financial
26422 Editor, foreign
26422 Editor, news (newspaper)
26422 Editor, news (periodical)
26422 Editor, newspaper
26422 Editor, periodical
26422 Editor, press
26545 Editor, radio
26545 Editor, radio, television and video
26415 Editor, script
35219 Editor, sound (motion picture film)
26422 Editor, sports
26545 Editor, television
26545 Editor, video
26422 Editor-in-chief, newspaper
23511 Education methods adviser
21220 Education statistician
23511 Educational assessment specialist
26340 Educational psychologist
24212 Efficiency expert, business
- 61221 Egg producer (farm)
74132 Electric cable jointer
81390 Electric cell man
74129 Electric motor fitter
74139 Electric power cableman (underground)
21512 Electric power engineer
74131 Electric power lineman
74139 Electric power lineman (underground)
74129 Electric sign assembler and installer
74131 Electric traction lineman
82121 Electrical component assembler
74129 Electrical control apparatus fitter
31183 Electrical draughtsman
31183 Electrical draughtsperson
74122 Electrical elevator and related equipment fitter
21511 Electrical engineer (general)
21512 Electrical engineer (power distribution and transmission)
21512 Electrical engineer (power generation)
31002 Electrical engineer, assistant
31131 Electrical engineering technician (general)
31132 Electrical engineering technician (high voltage)
82121 Electrical equipment assembler
74121 Electrical fitter (general)
74129 Electrical fitter (household appliance)
74129 Electrical fitter (office machinery)
74129 Electrical fitter (refrigeration and air-conditioning equipment)
74129 Electrical fitter (signalling system)
74129 Electrical fitter (transformer)
74129 Electrical household appliance fitter
74123 Electrical household appliance mechanic
74123 Electrical household appliance repairer
74129 Electrical instrument fitter
74122 Electrical lift fitter
74129 Electrical motor and generator fitter
74129 Electrical office machinery fitter
82131 Electrical products checker (quality assurance)

82131	Electrical products quality checker	82122	Electronic equipment assembler
82131	Electrical products tester	74219	Electronic industrial equipment fitter
74129	Electrical refrigeration and air-conditioning equipment fitter	74219	Electronic instrument fitter
74123	Electrical repairer (household appliance)	74219	Electronic medical equipment fitter
74129	Electrical signalling systems fitter	74219	Electronic meteorological equipment fitter
81860	Electrical switchboard operator (power station)	31195	Electronic pre-press technician
74129	Electrical switchgear and control apparatus fitter	82131	Electronic products checker (quality assurance)
74129	Electrical transformer fitter	82131	Electronic products quality checker
74123	Electrician (household electrical equipment)	82131	Electronic products tester
74110	Electrician, aircraft	74211	Electronic prototype fitter
74110	Electrician, building	74221	Electronic signalling systems fitter
74110	Electrician, building maintenance	31183	Electronics draughtsman
74110	Electrician, installation (building)	31183	Electronics draughtsperson
74110	Electrician, locomotive	21521	Electronics engineer (general)
74110	Electrician, maintenance (building)	31003	Electronics engineer, assistant
74110	Electrician, motor vehicle	31141	Electronics engineering technician (general)
74129	Electrician, neon-lighting	74211	Electronics fitter (general)
74110	Electrician, ship	74219	Electronics fitter (industrial equipment)
74110	Electrician, stage and studio	74219	Electronics fitter (instruments)
74110	Electrician, theatre	74219	Electronics fitter (medical equipment)
74110	Electrician, train	74219	Electronics fitter (meteorological equipment)
74110	Electrician, vehicle	74221	Electronics fitter (radio, television and radar equipment)
81860	Electricity generating plant operator (steam)	21110	Electronics physicist
81860	Electricity generating switchboard operator	13291	Electricity power plant manager
81860	Electricity generating turbine operator	81241	Electroplater
81860	Electricity generator operator (private installation)	32559	Electrotherapist
21110	Electricity physicist	73213	Electrotype caster
32119	Electrocardiograph technician	73213	Electrotype moulder
81312	Electrode baking furnaceman	73213	Electrotyper
32119	Electroencephalograph technician	51942	Elephant trainer
82122	Electronic component assembler	21513	Elevator engineer
74222	Electronic computer and related equipment fitter	74122	Elevator fitter (electrical)
35110	Electronic computer operator (mainframe)	83439	Elevator operator (material-handling)
13304	Electronic data processing manager	73211	Elrod casting machine operator (printing)
35110	Electronic data processing supervisor	51932	Embalmer
		21526	Embedded systems engineer
		81843	Embosser, book (machine)

81843	Embossing machine operator, book	21453	Engineer, chemical (petrochemicals)
81439	Embossing machine operator, paper	21452	Engineer, chemical (petroleum)
81419	Embossing machine operator, rubber	31511	Engineer, chief (ship)
75390	Embroiderer, hand	21421	Engineer, civil (general)
81532	Embroiderer, machine	21469	Engineer, coal mining
81531	Embroidering machine operator	21522	Engineer, computer hardware
22143	Emergency physician	25121	Engineer, computer software
72249	Emery polisher (metalworking)	21522	Engineer, computer systems
33330	Employment agent	21512	Engineer, distribution (electric power)
33330	Employment contractor	21429	Engineer, dock and harbour construction
24231	Employment counsellor	21429	Engineer, dredging
81629	Emulsifier (dairy products)	21511	Engineer, electrical (general)
73162	Enameller, ceramic	21512	Engineer, electrical (power distribution and transmission)
73162	Enameller, glass	21512	Engineer, electrical (power generation)
73139	Enameller, jewellery	21521	Engineer, electronics (general)
22129	Endocrinologist	21513	Engineer, elevator
21333	Energy manager	21526	Engineer, embedded systems
83129	Engine driver, railway	21431	Engineer, environmental
81252	Engine setter-operator (metalworking)	31512	Engineer, first (ship)
72311	Engine tuner	31534	Engineer, flight
31511	Engineer officer, chief (ship)	21461	Engineer, gas (production and distribution)
31512	Engineer officer, marine	21461	Engineer, gas (well drilling)
31512	Engineer officer, ship	21449	Engineer, gas turbine
21429	Engineer, aerodrome construction	21522	Engineer, hardware (computer)
21445	Engineer, aeronautical	21429	Engineer, highway and street construction
21499	Engineer, agricultural	21429	Engineer, hydraulics
21447	Engineer, air-conditioning	21429	Engineer, hydrographic
25190	Engineer, artificial intelligence	21442	Engineer, industrial machinery and tools
31005	Engineer, assistant (chemical)	25230	Engineer, infrastructure (IT)
31001	Engineer, assistant (civil)	21525	Engineer, instrumentation
31002	Engineer, assistant (electrical)	21449	Engineer, internal combustion motor
31003	Engineer, assistant (electronic)	21449	Engineer, jet motor
31006	Engineer, assistant (manufacturing)	21513	Engineer, lift
31004	Engineer, assistant (mechanical)	21449	Engineer, locomotive (steam)
31006	Engineer, assistant (production)	21442	Engineer, machinery and tools (industrial)
31001	Engineer, assistant (structural)	21411	Engineer, manufacturing (general)
21524	Engineer, audio equipment	21443	Engineer, marine (shore-based)
21413	Engineer, automation	21492	Engineer, materials
21446	Engineer, automotive	21445	Engineer, mechanical (aeronautical)
21491	Engineer, biomedical		
21429	Engineer, bridge construction		
21530	Engineer, broadcast		
21423	Engineer, building construction		
21529	Engineer, CAD-CAM		
21451	Engineer, chemical (general)		

21446	Engineer, mechanical (automotive)	25121	Engineer, software
21441	Engineer, mechanical (general)	21424	Engineer, soil mechanics
21447	Engineer, mechanical (heating, ventilation and refrigeration)	21423	Engineer, structural (buildings)
21442	Engineer, mechanical (industrial machinery and tools)	21422	Engineer, structural (general)
21443	Engineer, mechanical (marine)	21522	Engineer, systems (computer)
21449	Engineer, mechanical (motors and engines, except marine)	21530	Engineer, telecommunications
21469	Engineer, metal-mining	21530	Engineer, telephone
21419	Engineer, methods	21524	Engineer, television
21469	Engineer, mining (coal)	31512	Engineer, third (ship)
21469	Engineer, mining (metal)	21442	Engineer, tools and industrial machinery
21461	Engineer, mining (petroleum and natural gas)	21519	Engineer, traction (electric power)
21419	Engineer, motion study	21649	Engineer, traffic
25230	Engineer, network	21512	Engineer, transmission (electric power)
21469	Engineer, non-metalliferous mining	21429	Engineer, tunnel construction
21419	Engineer, organisation and methods	21524	Engineer, video equipment
21453	Engineer, petrochemicals	21419	Engineer, work study
21461	Engineer, petroleum and natural gas	13291	Engineering manager
21452	Engineer, petroleum refining	33222	Engineering salesman
21424	Engineer, piling	81252	Engine-lathe operator (metalworking)
21512	Engineer, power distribution and transmission	72339	Engine-room mechanic (ship)
21512	Engineer, power generation	81829	Engine-room rating, ship's
21499	Engineer, procurement	73161	Engraver, glass
21412	Engineer, production	73134	Engraver, jewellery
21414	Engineer, quality assurance	73219	Engraver, metal printing roller
21414	Engineer, quality control	73219	Engraver, music printing
21529	Engineer, radar	73214	Engraver, photogravure
21524	Engineer, radio	73219	Engraver, printing (metal plate, roller and die)
21429	Engineer, railway construction	73217	Engraver, printing (photogravure)
21447	Engineer, refrigeration	73219	Engraver, printing roller
21429	Engineer, road construction	73219	Engraving pantograph operator
21449	Engineer, robotics	42249	Enquiries clerk
21493	Engineer, safety (industrial)	21313	Entomologist
21432	Engineer, sanitary	43142	Enumerator
31512	Engineer, second (ship)	81432	Envelope and paper bag maker
21523	Engineer, semi-conductor	21431	Environment engineer
21432	Engineer, sewerage	32571	Environmental health inspector
21444	Engineer, ship construction	21331	Environmental officer (environmental protection)
31512	Engineer, ship's	22632	Environmental officer (environmental public health)
21519	Engineer, signal systems (electrical)	22500	Epidemiologist, veterinary
21529	Engineer, signal systems (electronic)	24131	Equities analyst
		72335	Erector and installer, machinery
		74221	Erector, aerial (radio and television)
		74221	Erector, antenna (radio and television)

61111	Farm worker, hydroponics	61119	Farmer, vegetable
61210	Farm worker, livestock	31423	Farming technician (livestock and fisheries)
61112	Farm worker, mushroom	31423	Farming technician (pets)
61900	Farm worker, nutmeg	34351	Fashion and garment designer
62219	Farm worker, oyster	34391	Fashion artist
61900	Farm worker, pepper	26422	Fashion editor
61210	Farm worker, pig	52411	Fashion model
61221	Farm worker, poultry (general)	34310	Fashion photographer
62211	Farm worker, prawn	26421	Fashion reporter
61900	Farm worker, rice	34399	Fashion stylist
61900	Farm worker, rubber	94103	Fast food preparer
61900	Farm worker, spice	14121	Fast food restaurant manager
61900	Farm worker, sugar-cane	26422	Feature editor
61900	Farm worker, tobacco	26421	Feature writer
62212	Farm worker, tropical fish	81693	Feed mixing machine operator
61221	Farmer (battery poultryman)	81841	Feeder, printing press
61900	Farmer (copra)	61900	Feller (logging)
61221	Farmer (egg producer)	75390	Fellmonger
61900	Farmer (general)	72142	Fencing worker
61900	Farmer (mixed farming)	81674	Fermenting room man
61132	Farmer (nursery)	83509	Ferry boatman
61222	Farmer (poultry hatcher and breeder)	31599	Ferry superintendent
61900	Farmer (spice grower)	51129	Ferryboat conductor
62212	Farmer, aquarium fish	75390	Fibre blender
61221	Farmer, chicken	75390	Fibre carder
61900	Farmer, coconut	75390	Fibre comber
61900	Farmer, corn	81542	Fibre dyer (textile)
62213	Farmer, crocodile	75390	Fibre grader and classer
61210	Farmer, dairy	81315	Fibre maker (synthetic)
61221	Farmer, duck	75390	Fibre mixer and blender
62211	Farmer, fish	75390	Fibre preparer
61131	Farmer, flower	75390	Fibre rover
61900	Farmer, fruit	75390	Fibre scourer, wool
61221	Farmer, goose	81812	Fibreglass maker
61900	Farmer, grain	81142	Fibro-cement product making machine operator
61900	Farmer, groundnut	35120	Field engineer, information technology (IT)
61210	Farmer, livestock	43142	Field investigator (statistical)
61900	Farmer, maize	40000	Field supervisor (market research)
61112	Farmer, mushroom	40000	Field supervisor (statistical)
61900	Farmer, nut	41102	Filing clerk
61131	Farmer, orchid	81872	Filler, liquefied petroleum gas (LPG)
61221	Farmer, poultry	81872	Filler, oxygen
62211	Farmer, prawn	26550	Film actor
61900	Farmer, rice	81320	Film and photographic paper maker
61900	Farmer, rubber	26421	Film critic
61900	Farmer, soya bean		
61900	Farmer, sugar-cane		
61900	Farmer, tobacco		
62212	Farmer, tropical fish		
61221	Farmer, turkey		

81320	Film developer, photographic	31711	Fire prevention specialist
81320	Film drying machine operator (motion picture)	31711	Fire safety manager
81320	Film maker, photographic	54110	Fire salvage specialist
81854	Film operator (water works)	71120	Firebrick layer
81320	Film printer	54110	Fireman (aerodrome)
59001	Film projectionist, cinema	81312	Fireman (chemical and related processes)
81313	Filter press operator	54110	Fireman (fire brigade)
81819	Filter press operator, clay	81811	Fireman, biscuit-kiln (pottery and porcelain)
81313	Filterer, rotary drum	81811	Fireman, biscuit-kiln (tile)
43129	Finance clerk	81821	Fireman, boiler
12111	Finance manager	81811	Fireman, brick and tile oven
21220	Finance statistician	81811	Fireman, glost-kiln (pottery and porcelain)
24120	Financial adviser	81811	Fireman, glost-kiln (tile)
33219	Financial adviser (insurance)	81829	Fireman, locomotive
24131	Financial analyst	81672	Fireman, malt
13460	Financial and insurance services manager	81811	Fireman, pottery oven
12111	Financial controller	81829	Fireman, railway steam engine
26422	Financial editor	81822	Fireman, ship's
33113	Financial futures broker	81821	Fireman, steam boiler
33113	Financial futures dealer	31512	First engineer (ship)
13460	Financial institution branch manager	31522	First mate (ship)
33493	Financial marketing processing and settlement executive	62212	Fish breeder, aquarium
33493	Financial markets product control executive	75119	Fish curer
33211	Financial planner	62211	Fish farm worker
24139	Financial product structurur	62212	Fish farm worker, aquarium
33225	Financial products institutional sales representative	62212	Fish farm worker, tropical
72249	Finisher (metal polishing)	62211	Fish farmer
81249	Finisher, casting	62211	Fish hatchery
71143	Finisher, cement	62212	Fish hatchery worker (aquarium)
71143	Finisher, concrete	81694	Fish meal making machine operator
72229	Finisher, die	81619	Fish processing machine operator
75390	Finisher, pelt	75119	Fish smoker
73219	Finisher, photo-engraving	62220	Fisherman, deep-sea
73219	Finisher, plastic (photo- engraving)	62220	Fisherman, inland and coastal waters
73219	Finisher, plate (photo-engraving)	62220	Fisherman, kelong
75361	Finisher, shoe	13101	Fishery manager
75222	Finisher, wooden furniture	62220	Fishery worker, deep-sea
31711	Fire and safety inspector	51132	Fishing guide
31711	Fire and safety officer	81599	Fishing net maker
83323	Fire engine driver	81139	Fishing-tool operator (oil and gas wells)
54110	Fire fighter (general)	34223	Fitness instructor
54110	Fire fighter, aircraft accident	72339	Fitter, agricultural machinery
54110	Fire fighter, harbour	72322	Fitter, aircraft engine
54110	Fire investigator	71262	Fitter, aircraft pipe and tube

32141	Fitter, artificial limb	71262	Fitter, gas pipe
74222	Fitter, computer and related equipment	74129	Fitter, generator
74222	Fitter, data processing equipment	72339	Fitter, industrial machinery
74129	Fitter, dynamo	72339	Fitter, internal combustion engine (except aircraft and marine engine)
72339	Fitter, earthmoving equipment	72332	Fitter, machinery (general)
74129	Fitter, electric motor	72339	Fitter, maintenance
74121	Fitter, electrical (general)	72334	Fitter, marine engine
74129	Fitter, electrical (household appliance)	72339	Fitter, metalworking machine-tool
74129	Fitter, electrical (office machinery)	74219	Fitter, meteorological electronic equipment
74129	Fitter, electrical (refrigeration and air-conditioning equipment)	72311	Fitter, motor vehicle
74129	Fitter, electrical (signalling systems)	72339	Fitter, office machinery
74129	Fitter, electrical (transformer)	71262	Fitter, pipe (gas)
74129	Fitter, electrical control apparatus	71262	Fitter, pipe (general)
74122	Fitter, electrical elevator and related equipment	71262	Fitter, pipe (marine)
74129	Fitter, electrical household appliance	71262	Fitter, pipe (steam)
74129	Fitter, electrical instrument	71262	Fitter, pipe tube (aircraft)
74122	Fitter, electrical lift	71250	Fitter, plate glass
74129	Fitter, electrical motor and generator	72339	Fitter, printing machinery
74129	Fitter, electrical office machinery	74221	Fitter, radar
74129	Fitter, electrical refrigeration and air-conditioning equipment	74221	Fitter, radio transmitter
74129	Fitter, electrical signalling systems	74129	Fitter, rheostat
74129	Fitter, electrical switchgear and control apparatus	74129	Fitter, signalling equipment (electrical)
74129	Fitter, electrical transformer	74221	Fitter, signalling equipment (electronic)
74222	Fitter, electronic computer and related equipment	75361	Fitter, sole
74219	Fitter, electronic instruments	74129	Fitter, switchgear (electrical)
74211	Fitter, electronic prototype	74221	Fitter, television transmitter
74221	Fitter, electronic signalling systems	72339	Fitter, textile machinery
74211	Fitter, electronics (general)	74129	Fitter, transformer
74219	Fitter, electronics (industrial equipment)	72339	Fitter, turbine (except aircraft and marine turbine)
74219	Fitter, electronics (medical equipment)	72339	Fitter, woodworking machinery
74219	Fitter, electronics (meteorological equipment)	72339	Fitter-assembler, agricultural machinery
74221	Fitter, electronics (radio, television and radar equipment)	72322	Fitter-assembler, aircraft engine
74122	Fitter, elevator (electrical)	72339	Fitter-assembler, earth-moving equipment
74122	Fitter, escalator	72339	Fitter-assembler, internal combustion engine (except aircraft and marine engine)
		72332	Fitter-assembler, machinery (general)
		72334	Fitter-assembler, marine engine
		72339	Fitter-assembler, metalworking machine-tool
		72339	Fitter-assembler, office machinery

72339	Fitter-assembler, printing machinery	75159	Food taster
72339	Fitter-assembler, textile machinery	31412	Food technician
72339	Fitter-assembler, turbine (except aircraft and marine turbine)	21130	Food toxicologist
72339	Fitter-assembler, woodworking machinery	81659	Foodstuffs dehydrator
71151	Fixer (carpenter)	81619	Foodstuffs freezer
71199	Fixer, prefabricated building section	51491	Foot reflexologist
72122	Flame cutter	34210	Football player
72122	Flame cutter (metal cutting machine)	75361	Footwear maker
26521	Flautist	75362	Footwear maker, orthopaedic
75190	Flavourer, tobacco	75363	Footwear repairer
31534	Flight engineer	X5000	Foreign ambassador
31533	Flight navigator	X4000	Foreign armed forces
31594	Flight operations officer	X5000	Foreign consular general
35234	Flight radio operator	X5000	Foreign consular official
51112	Flight steward	X5000	Foreign diplomatic representative
81819	Float glass bath operator	26422	Foreign editor
83431	Floating crane operator	33112	Foreign exchange broker
71220	Floor layer (composition tiles)	33112	Foreign exchange dealer
71220	Floor layer, parquetry	81000	Foreman, general (beverage making)
71220	Floor layer, wood block	71000	Foreman, general (building trades)
52201	Floor supervisor (retail trade)	71000	Foreman, general (building)
71220	Floor tiler	73000	Foreman, general (ceramics manufacturing)
21325	Floriculturist	81000	Foreman, general (chemical processing)
52202	Florist	81000	Foreman, general (chemical products manufacturing)
75123	Flour confectionery mixer	81000	Foreman, general (clothing manufacturing)
61131	Flower and orchid farmer	71000	Foreman, general (construction)
36202	Flower arrangement teacher	74000	Foreman, general (electrical and electronic installation and repair)
75390	Flower maker, artificial	82000	Foreman, general (electrical equipment manufacturing and repairing)
26521	Flutist	81000	Foreman, general (electricity generation and distribution)
31535	Flying instructor (except air force)	82000	Foreman, general (electronic equipment manufacturing and repairing)
81599	Folding and baling machine operator (textile weaving)	81000	Foreman, general (food manufacturing)
81431	Folding machine operator (paper box)	81000	Foreman, general (furniture and related products manufacturing)
14121	Food and beverage department manager (hotel)	81000	Foreman, general (gas production and distribution)
21496	Food and drink technologist	73000	Foreman, general (glass products manufacturing)
51390	Food checker (catering service)		
21130	Food chemist		
75159	Food grader		
75190	Food pickler		
31412	Food processing technician		
31412	Food production technician		
31412	Food science technician		
94102	Food stall assistant		

73000	Foreman, general (jewellery manufacturing)	54199	Forest supervisor
75000	Foreman, general (leather goods making)	61900	Forestry logger
72000	Foreman, general (metal and machinery trades)	61900	Forestry worker
81000	Foreman, general (metal processing)	72219	Forge hammer driver
81000	Foreman, general (metal smelting, converting and refining)	72219	Forge hammersmith
72000	Foreman, general (non-electrical /non-electronic machinery manufacturing and repair)	72212	Forging-press operator
81000	Foreman, general (paper products manufacturing)	83441	Fork lift truck operator
81000	Foreman, general (papermaking)	81314	Formic acid plant operator
81000	Foreman, general (petroleum refining)	81432	Forming press operator (cardboard article)
81000	Foreman, general (plastic products manufacturing)	51910	Fortune teller
71000	Foreman, general (plumbing installation and repair)	33311	Forwarding agent
73000	Foreman, general (pottery and bricks manufacturing)	21462	Foundry metallurgist
73000	Foreman, general (precision instrument manufacturing)	31193	Foundry technician
81000	Foreman, general (prefabrication components manufacturing)	75223	Frame maker, picture
81000	Foreman, general (printing)	81511	Frame operator, spinning (thread and yarn)
81000	Foreman, general (rubber products manufacturing)	81732	Frame precision sawyer (wood)
72000	Foreman, general (ship building and repairing)	81855	Freezer operator
75000	Foreman, general (shoemaking)	81629	Freezer operator (dairy products)
81000	Foreman, general (synthetic material products manufacturing)	81619	Freezer, foodstuffs
81000	Foreman, general (textile fibre processing and textile manufacturing)	43219	Freight receiving clerk
75000	Foreman, general (tobacco products manufacturing)	13243	Freight traffic department manager
81000	Foreman, general (water supply)	81732	Fret-saw operator
81000	Foreman, general (well drilling)	81522	Fringing machine operator
81000	Foreman, general (wood products making)	81819	Frit kilnman
72000	Foreman, shipyard	59009	Frogman (salvage)
22146	Forensic pathologist	42242	Front office executive
26340	Forensic psychologist	14111	Front office manager (hotel)
31199	Forensic science technician	73161	Froster (glass sandblasting)
54199	Forest patrolman	81619	Froster operator (food freezing)
54199	Forest ranger	61900	Fruit farm worker
		61900	Fruit farmer
		75190	Fruit pickler
		75190	Fruit preserver
		81651	Fruit press operator
		75401	Fumigator
		33493	Fund administration executive
		33221	Fund management business development executive
		24133	Fund manager
		33493	Fund performance measurement executive
		51931	Funeral director
		96259	Fun-fair attendant
		75390	Fur sewer
		75390	Fur tailor
		81219	Furnace charger (metal melting and reheating)

73132	Gem cutter and polisher	81000	General foreman (petroleum refining)
73132	Gem setter	81000	General foreman (plastic products manufacturing)
26339	Genealogist	71000	General foreman (plumbing installation and repair)
81000	General foreman (beverage making)	73000	General foreman (pottery and bricks manufacturing)
71000	General foreman (building trades)	73000	General foreman (precision instrument manufacturing)
71000	General foreman (building)	81000	General foreman (prefabrication components manufacturing)
73000	General foreman (ceramics manufacturing)	81000	General foreman (printing)
81000	General foreman (chemical processing)	81000	General foreman (rubber products manufacturing)
81000	General foreman (chemical products manufacturing)	72000	General foreman (ship building and repairing)
81000	General foreman (clothing manufacturing)	75000	General foreman (shoemaking)
71000	General foreman (construction)	81000	General foreman (synthetic material products manufacturing)
74000	General foreman (electrical and electronic installation and repair)	81000	General foreman (textile fibre processing and textile manufacturing)
82000	General foreman (electrical equipment manufacturing and repairing)	75000	General foreman (tobacco products manufacturing)
81000	General foreman (electricity generation and distribution)	81000	General foreman (water supply)
82000	General foreman (electronic equipment manufacturing and repairing)	81000	General foreman (well drilling)
81000	General foreman (food manufacturing)	81000	General foreman (wood processing)
81000	General foreman (furniture and related products manufacturing)	81000	General foreman (wood products making)
81000	General foreman (gas production and distribution)	33493	General insurance claims processing executive
73000	General foreman (glass products manufacturing)	43111	General ledger bookkeeper
73000	General foreman (jewellery manufacturing)	11203	General manager (agriculture)
75000	General foreman (leather goods making)	11203	General manager (construction)
72000	General foreman (metal and machinery trades)	11203	General manager (hotel)
81000	General foreman (metal processing)	11203	General manager (manufacturing)
81000	General foreman (metal smelting, converting and refining)	11203	General manager (mining and quarrying)
72000	General foreman (non-electrical/non-electronic machinery manufacturing and repair)	11203	General manager (restaurant)
81000	General foreman (paper products manufacturing)	11203	General manager (retail trade)
81000	General foreman (papermaking)	11203	General manager (service firm)
		11122	General manager (statutory board)
		11203	General manager (transport)
		11203	General manager (wholesale trade)
		41101	General office clerk

40000	General office supervisor	71250	Glass installer (vehicles)
22110	General physician	81811	Glass kiln operator
22110	General practitioner	81819	Glass lathe operator
11150	General secretary of labour union	73152	Glass lens moulder
22131	General surgeon	81811	Glass making furnaceman
81860	Generating plant operator (hydroelectric)	81819	Glass mixer
81860	Generating plant operator (steam)	81819	Glass moulding machine operator
74129	Generator fitter	73162	Glass painter
81860	Generator switchboard operator (power station)	73159	Glass plate rollerman
21349	Geneticist	81819	Glass pressing machine operator
21345	Geneticist, animal	73159	Glass rod maker
21329	Geneticist, plant	73161	Glass sandblaster
21142	Geodesist	71250	Glass setter (building)
21142	Geodesist surveyor	73162	Glass silverer
21652	Geodetic surveyor	21495	Glass technologist
26339	Geographer	81811	Glass temperer
31189	Geological draughtsman	73159	Glass tube bender
31189	Geological draughtsperson	73159	Glass tube drawer
21141	Geological oceanographer	73159	Glass tube maker
21141	Geologist	81812	Glass-fibre maker
31119	Geology technician	81819	Glaze grinder
21142	Geomagnetician	81819	Glaze maker
21141	Geomorphologist	81819	Glaze mixer
21142	Geophysical oceanographer	73162	Glazer, ceramic
21142	Geophysicist	71250	Glazier
22129	Geriatrician	71250	Glazier, building
81671	Germination worker (malting)	71250	Glazier, roofing
81653	Gingili miller	71250	Glazier, structural
81811	Glass annealing furnaceman	71250	Glazier, vehicle
73159	Glass beveller	81811	Glost-kiln fireman (pottery and porcelain)
73151	Glass blower	81811	Glost-kiln fireman (tile)
73151	Glass blower (scientific glass)	75329	Glove cutter
81819	Glass blowing machine operator	81723	Glue spreader, veneer
21130	Glass chemist	81729	Gluer, edge (veneer sheets)
73159	Glass cutter	81723	Gluer, veneer sheet
73161	Glass cutter (crystal)	93334	Godown labourer
73153	Glass cutter (optical glass)	73139	Gold beater
73161	Glass cutter-shaper (decorative)	73133	Goldsmith
73162	Glass decorator-painter	96259	Golf caddie
81819	Glass drawing machine operator	34221	Golf teacher
73159	Glass driller	34210	Golfer
73159	Glass edge grinder	33311	Goods agent (railway)
73162	Glass enameller	81830	Goods branding machine operator
73161	Glass engraver	93333	Goods loader (aircraft)
73161	Glass etcher	93332	Goods loader (lorry)
81819	Glass float bath operator	93332	Goods loader (railway and road vehicles)
73159	Glass grinder (laboratory apparatus)	81830	Goods marking machine operator
		61221	Goose farmer

51419	Hair consultant	53201	Healthcare assistant
51419	Hair therapist	21110	Heat physicist
51412	Hairdresser, men's	72149	Heater, rivet
51411	Hairdresser, women's	81859	Heating and ventilation equipment operator
51411	Hairstylist	31189	Heating systems draughtsman
96212	Hall porter (hotel)	31189	Heating systems draughtsperson
72219	Hammer driver, forge	75361	Heel builder (shoe)
72219	Hammerman (forging)	31532	Helicopter pilot (air transport)
73139	Hammerman (precious metal article)	81420	Helmet maker (plastic)
81630	Hammer-mill operator (grain milling)	83501	Helmsman
81630	Hammer-mill operator (rice milling)	32300	Herbalist
81630	Hammer-mill operator (spice milling)	31419	Herbarium technician
72219	Hammersmith	11121	High commissioner (government)
72219	Hammersmith (forging)	26120	High court judge
75390	Hand embroiderer	21429	Highway and street construction engineer
75390	Hand knitter	71329	Highway lane marker
93201	Hand packer	54121	Highway patrolman
22133	Hand surgeon	34424	High-wire artiste
75390	Hand tufter (carpet weaving)	21313	Histologist, animal
93201	Hand wrapper	21312	Histologist, plant
71331	Handyman, building maintenance	22146	Histopathologist
71312	Hanger, wallpaper	26331	Historian
54110	Harbour fire fighter	83431	Hoist operator (construction)
31523	Harbour pilot	83431	Hoist operator (mine)
54121	Harbour policeman	72153	Hoisting equipment rigger (construction)
81220	Hardener, case	72151	Hoisting equipment rigger (general)
81220	Hardener, cyanide	53209	Home care aide
21522	Hardware engineer (computer)	91301	Home care worker
81531	Hat and cap sewer (machine)	29090	Home economist
75299	Hat maker, straw	53209	Home health aide
61222	Hatcher and breeder, poultry	53114	Home parent
62211	Hatcher, fish	32300	Homeopath
62212	Hatchery worker, fish (aquarium)	81629	Homogeniser operator (dairy products)
61222	Hatchery worker, poultry	81256	Honing machine operator (metalworking)
52110	Hawker (excluding prepared food or drinks)	81256	Honing machine setter-operator (metalworking)
52120	Hawker (prepared food or drinks)	51944	Horse trainer
94102	Hawker assistant (prepared food or drinks)	31421	Horticultural technical officer
32571	Hawker inspector (government)	31421	Horticultural technician
94102	Hawker stall assistant (prepared food or drinks)	21322	Horticulturist
51311	Head waiter	81419	Hose maker
32300	Healer (drugless treatment)	81542	Hosiery dyer
32300	Healer, faith	81522	Hosiery knitting machine operator
13420	Health services manager	42290	Hospital admissions clerk
21220	Health statistician	96253	Hospital aid

96253	Hospital attendant	12121	Human resource manager
96253	Hospital orderly	33461	Human resource officer
22621	Hospital pharmacist	51132	Hunting guide
96253	Hospital servant	81630	Husking machine operator (grain milling)
42242	Hospitality services executive	72321	Hydraulic systems mechanic (aircraft)
14111	Hostel manager	21429	Hydraulics engineer
51112	Hostess, air (aircrew)	21319	Hydrobiologist
42244	Hostess, air (ground)	21110	Hydrodynamicist
51112	Hostess, aircraft	81860	Hydroelectric station operator
42244	Hostess, airport	81319	Hydrogen gas maker
51330	Hostess, bar	81654	Hydrogenation operator (oils and fats)
59009	Hostess, dance	21429	Hydrographic engineer
42244	Hostess, ground (airport)	21653	Hydrographic surveyor
51330	Hostess, lounge	21142	Hydrologist
51330	Hostess, night club	21120	Hydrometeorologist
81242	Hot-dip plater	61111	Hydroponic farm worker
96212	Hotel baggage porter	32512	Hygienist, oral
91122	Hotel cleaner	34429	Hypnotist
96211	Hotel concierge		
51202	Hotel cook		
14112	Hotel keeper (working proprietor)		
14111	Hotel manager		
42242	Hotel receptionist		
51502	Hotel steward		
81724	Hot-plate plywood press operator		
72212	Hot-press operator (forging)		
96259	Hot-room attendant (bath)	81692	Ice making machine operator
33340	House agent	81624	Ice-cream making machine operator
54191	House detective	21313	Ichthyologist
71311	House painter	21519	Illumination engineer
53114	House parent	34422	Illusionist
51502	House steward	34391	Illustrator, advertising
74123	Household appliance repairer, electrical	34391	Illustrator, book
51501	Housekeeper (except private service)	34391	Illustrator, commercial
51501	Housekeeper (hotels and other establishments)	29011	Imam
51509	Housekeeper (private service)	33510	Immigration officer
91121	Housekeeping attendant	26550	Impersonator
51503	Housekeeping matron	14204	Importer (working proprietor)
51501	Housekeeping supervisor (except private service)	73211	Imposer (printing)
91301	Housemaid	81712	Impregnating machine operator (papermaking)
31719	Housing maintenance inspector	81419	Impregnating machine operator (rubber)
51129	Hovercraft conductor	75212	Impregnator (wood treating)
31529	Hovercraft pilot	26541	Impresario
41103	Human resource clerk	13291	Incinerator plant manager
24231	Human resource consultant	81859	Incinerator plant operator
33461	Human resource development officer	61222	Incubator operator
		44110	Index clerk (library)

73132	Industrial diamond cutter and polisher	42249	Inquiries clerk
54192	Industrial investigator	61210	Inseminator, artificial (livestock)
82121	Industrial machine assembler (electrical)	61223	Inseminator, artificial (poultry)
21442	Industrial machinery and tools engineer	51601	Inspector of postmen
72339	Industrial machinery fitter	33510	Inspector, border
72333	Industrial machinery mechanic	34129	Inspector, child care
32201	Industrial nurse	33152	Inspector, claims
22629	Industrial pharmacist	31129	Inspector, construction
34310	Industrial photographer	33510	Inspector, customs
22149	Industrial physician	32571	Inspector, environmental health
81000	Industrial plant supervisor and general foreman	31720	Inspector, factory (occupational safety)
34352	Industrial product designer	31720	Inspector, machinery (government)
26340	Industrial psychologist	32572	Inspector, occupational health
12122	Industrial relations manager	33550	Inspector, police
33462	Industrial relations officer	33599	Inspector, price
81880	Industrial robot operator	31579	Inspector, railway transport service
21493	Industrial safety engineer	31573	Inspector, road passenger transport service
83449	Industrial truck operator	32571	Inspector, sanitary
53113	Infant care assistant	33591	Inspector, taxation
22129	Infectious diseases physician	51122	Inspector, ticket
33224	Information and communications technology sales representative	31573	Inspector, traffic (passenger road transport service)
42249	Information clerk	31579	Inspector, traffic (railway)
13301	Information systems manager	31573	Inspector, transport service (buses and trams)
35120	Information technology (IT) field engineer	31720	Inspector, vehicle (government)
33222	Information technology (IT) marketing representative	33599	Inspector, weights and measures (government)
25152	Information technology auditor	74110	Installation electrician (building)
13304	Information technology manager	72335	Installer and erector, machinery
25111	Information technology project leader	74129	Installer, electric sign
25160	Information technology project manager	71250	Installer, glass (vehicles)
25151	Information technology quality assurance specialist	71272	Installer, refrigeration and air-conditioning equipment
25240	Information technology security specialist	74224	Installer, telecommunications and telephone
25151	Information technology testing specialist	74224	Installer, telegraph
25230	Infrastructure architect (IT)	74224	Installer, telephone and telecommunications
25230	Infrastructure engineer (IT)	74224	Installer, telephone and telegraph
81420	Injection moulding machine operator, plastics	33225	Institutional sales representative, financial
62220	Inland and coastal waters fisherman	34223	Instructor, aerobics
14112	Innkeeper (working proprietor)	36202	Instructor, art (extracurriculum)
		36205	Instructor, dance (private tuition)
		36206	Instructor, drama (extracurriculum)

L

96252	Laboratory attendant	81252	Lathe operator (metalworking)
31411	Laboratory technician (biology)	81819	Lathe operator, glass
31111	Laboratory technician (chemistry)	81149	Lathe operator, stone
31112	Laboratory technician (physics)	81722	Lathe operator, veneer cutting
32120	Laboratory technician, medical	81739	Lathe operator, wood turning
33462	Labour conciliator	81252	Lathe setter-operator
33330	Labour contractor	81739	Lathe setter-operator (woodworking)
33599	Labour inspector (government)	91210	Lauderer (except private service)
33462	Labour management relations conciliator	81591	Laundering machine operator
93100	Labourer (construction)	91302	Laundress (private service)
96293	Labourer (general)	91210	Laundry and dry cleaning worker (manual, non-household)
93209	Labourer (manufacturing)	81591	Laundry press machine operator
92190	Labourer, farm	91210	Laundry worker (hotel)
93100	Labourer, road maintenance	96259	Lavatory attendant
93209	Labourer, smokehouse (rubber)	44170	Law clerk
75229	Ladder maker (wood)	26112	Lawyer (except advocate and solicitor)
51411	Ladies' hairdresser	26111	Lawyer, civil
81819	Laminated glass worker	26111	Lawyer, criminal
81719	Laminating machine operator (papermaking)	71290	Layer, carpet
81420	Laminating machine operator, plastics	71263	Layer, drain
81412	Laminating machine operator, rubber	71120	Layer, firebrick
81420	Laminator, plastics	71263	Layer, mains
31124	Land surveying technician	71263	Layer, pipe
21652	Land surveyor	71220	Layer, tile (composition tiles)
21620	Landscape architect	92149	Layer, turf
21620	Landscape artist	71220	Layer, wood block floor
34322	Landscape designer	39910	Layworker
12192	Landscape operations manager	81871	Lead blender (petroleum refining)
31719	Landscape safety inspector	81319	Lead oxide maker
31719	Landscape safety officer	26523	Leader, band
92149	Landscape worker	26523	Leader, dance band
36201	Language instructor (extracurriculum)	34129	Leader, youth
36201	Language school teacher	75190	Leaf conditioner (tobacco)
36201	Language teacher (language school)	73139	Leaf maker, precious metal
32532	Language therapist	96291	Leaflet and newspaper deliverer
81259	Lapping machine operator (metalworking)	96291	Leaflet and newspaper distributor
81259	Lapping machine setter-operator (metalworking)	21130	Leather chemist
75361	Lasting machine operator (shoemaking)	75390	Leather carrier
81259	Lathe operator (metal spinning)	75390	Leather dyer
		75390	Leather dyer and stainer
		75364	Leather goods assembler
		75364	Leather goods maker
		75364	Leather sewer
		75390	Leather tanner
		23102	Lecturer, polytechnic
		23101	Lecturer, university
		43112	Ledger clerk

44170	Legal clerk	81679	Liqueur maker
26113	Legal officer	75159	Liquor taster
11110	Legislator (national government)	33399	Literary agent
14329	Leisure centre manager	26421	Literary critic
73154	Lens grinding machine operator	34391	Litho artist
73152	Lens moulder, glass	73162	Lithographer (ceramics decorating)
73155	Lens polishing machine operator	81841	Lithographic pressman
71131	Letter cutter, stone	73229	Lithographic transferrer
44199	Letter writer	73229	Lithographic tuscher
71323	Letterer (sign writing)	61210	Livestock farm worker
81841	Letterpress operator	61210	Livestock farmer
26221	Librarian	81860	Load dispatcher (electric power)
44110	Library assistant	93333	Loader, aircraft
96251	Library attendant	93331	Loader, boat and ship
44110	Library clerk	93332	Loader, lorry
14329	Library manager	93332	Loader, railway and road vehicle
34331	Library officer	93332	Loader, truck
34331	Library technician	31596	Load-sheet officer (aircraft)
33493	Life insurance claims processing executive	33120	Loans officer
34129	Life skills worker	72224	Locksmith
54150	Lifeguard	21449	Locomotive (steam) engineer
96259	Lift attendant	83431	Locomotive crane operator
21513	Lift engineer	74110	Locomotive electrician
83449	Lifting truck operator	81829	Locomotive fireman
21110	Light physicist	14112	Lodging house keeper (working proprietor)
83502	Lighterman	14111	Lodging house manager
96269	Lighthouse keeper	81711	Log chipper (machine)
96269	Lighthouse man	13241	Logistics manager
26543	Lighting director	93331	Longshoreman
34399	Lighting technician	81521	Loom operator, cloth weaving
83509	Lightshipman	81521	Loom operator, jacquard
21319	Limnologist	93335	Lorry attendant
74131	Lineman, electric power	83321	Lorry driver
74139	Lineman, electric power (underground)	93332	Lorry loader
74131	Lineman, electric traction	72311	Lorry, motor, mechanic
74223	Lineman, telecommunications and telephone	33152	Loss assessor
74223	Lineman, telephone and telegraph	51330	Lounge hostess
81432	Lining machine operator, cardboard	31159	Lubrication engineering technician
81522	Link and link-knitting machine operator (garment)	81859	Lubricator (except ship's engines)
73211	Linotype operator	73211	Ludlow casting machine operator (printing)
34429	Lion tamer	75211	Lumber kiln operator
81319	Liquefaction plant operator (liquefied gases)	61900	Lumberjack
81872	Liquefied petroleum gas (LPG) filler	26419	Lyric writer

M

81642	Macaroni making machine operator	81830	Machine operator, boxing (packing)
81642	Macaroni, noodle and vermicelli maker	81599	Machine operator, braid making
73162	Machine attendant, dipping (ceramics decorating)	73211	Machine operator, braille (plate preparer)
31155	Machine building specialist	72241	Machine operator, buffing and polishing
81532	Machine embroiderer	81623	Machine operator, butter making
81830	Machine labeller	81319	Machine operator, candle making
81142	Machine operator, asbestos cement product	81830	Machine operator, capping and sealing
83425	Machine operator, asphalt spreading	81719	Machine operator, carbon coding (papermaking)
81259	Machine operator, automatic transfer (metalworking)	81432	Machine operator, cardboard lining
81712	Machine operator, back-end (papermaking)	81739	Machine operator, carving (woodworking)
81432	Machine operator, bag making (paper bag)	81141	Machine operator, cast concrete product
81649	Machine operator, baked goods products	81149	Machine operator, cast stone making
81890	Machine operator, baling (paper)	81420	Machine operator, casting (plastic goods)
81599	Machine operator, baling and folding (textile weaving)	73211	Machine operator, casting (printing type)
81691	Machine operator, bean curd making	81439	Machine operator, cellophane bag making
81431	Machine operator, bending (paper box)	81649	Machine operator, cereal processing
81641	Machine operator, biscuit making	81311	Machine operator, chemical mixing
83425	Machine operator, bituminous paving	81689	Machine operator, cheroot making
81311	Machine operator, blending (chemical and related processes)	81722	Machine operator, chipping (veneer cutting)
81677	Machine operator, blending (coffee)	81625	Machine operator, chocolate making
81677	Machine operator, blending (tea)	81689	Machine operator, cigar making
81843	Machine operator, book embossing	81681	Machine operator, cigarette making
81842	Machine operator, bookbinding	75361	Machine operator, clicking (shoemaking)
81842	Machine operator, book-sewing	81599	Machine operator, cloth doubling and winding
81255	Machine operator, boring (metalworking)	81419	Machine operator, coating (rubber)
81739	Machine operator, boring (woodworking)	81331	Machine operator, coating (tablets and pills)
81830	Machine operator, bottle washing	81243	Machine operator, coating (wire)
81830	Machine operator, bottling	81678	Machine operator, cocoa bean roasting
81431	Machine operator, box making (paper box)		

81678	Machine operator, cocoa grinding	81841	Machine operator, duplicating
81678	Machine operator, coffee bean roasting	81841	Machine operator, duplicating (braille)
81677	Machine operator, coffee blending	81542	Machine operator, dyeing (garments)
81678	Machine operator, coffee grinding	81542	Machine operator, dyeing (textile)
81842	Machine operator, collating (bookbinding)	81542	Machine operator, dyeing (thread and yarn)
73211	Machine operator, composing (linotype)	83426	Machine operator, earth boring (construction)
83425	Machine operator, concrete finishing (road paving)	73211	Machine operator, elrod casting (printing)
83425	Machine operator, concrete paving	81843	Machine operator, embossing (books)
81629	Machine operator, condensed milk making	81439	Machine operator, embossing (paper)
81626	Machine operator, confectionery making (sugar confectionery)	81419	Machine operator, embossing (rubber)
81890	Machine operator, container filling (except compressed and liquefied gas)	81531	Machine operator, embroidering
81630	Machine operator, corn milling	83421	Machine operator, excavating
81719	Machine operator, corrugating (papermaking)	81419	Machine operator, extruding (rubber)
81719	Machine operator, creping (papermaking)	81693	Machine operator, feed mixing
81719	Machine operator, crinkling (papermaking)	81142	Machine operator, fibro-cement product
81522	Machine operator, crocheting	81320	Machine operator, film drying (motion picture)
43121	Machine operator, currency sorting	81694	Machine operator, fish meal making
81626	Machine operator, cutting (sugar confectionery)	81619	Machine operator, fish processing
81622	Machine operator, dairy product pasteurising	81431	Machine operator, folding (paper box)
81621	Machine operator, dairy product processing (general)	81599	Machine operator, folding and baling (textile weaving)
81320	Machine operator, developing (motion picture)	81522	Machine operator, fringing
81259	Machine operator, die sinking (metalworking)	81522	Machine operator, garment knitting
81419	Machine operator, dipping (rubber)	81531	Machine operator, garment sewing
81512	Machine operator, doubling (thread and yarn)	72122	Machine operator, gas cutting (metal)
81599	Machine operator, drawing-in (textile weaving)	81259	Machine operator, gear cutting (metalworking)
81255	Machine operator, drilling (metalworking)	81819	Machine operator, glass blowing
81591	Machine operator, dry cleaning (laundry service)	81819	Machine operator, glass drawing
		81819	Machine operator, glass moulding
		81819	Machine operator, glass pressing
		81830	Machine operator, goods branding

81830	Machine operator, goods marking	81256	Machine operator, metal honing
81630	Machine operator, grain milling	81253	Machine operator, metal milling
81331	Machine operator, granulator	81254	Machine operator, metal planing
81678	Machine operator, grinding (cocoa)	81259	Machine operator, metal sawing
81678	Machine operator, grinding (coffee)	81256	Machine operator, metal shaping
81256	Machine operator, honing (metalworking)	81251	Machine operator, metalworking (general)
81522	Machine operator, hosiery knitting	81253	Machine operator, milling (metalworking)
81630	Machine operator, husking (grain milling)	81311	Machine operator, mixing (chemical and related processes)
81692	Machine operator, ice making	81693	Machine operator, mixing (feed)
81624	Machine operator, ice-cream making	73211	Machine operator, monotype casting (printing)
81712	Machine operator, impregnating (papermaking)	81420	Machine operator, moulding (plastics)
81419	Machine operator, impregnating (rubber)	81259	Machine operator, nail making
81522	Machine operator, knitting	81642	Machine operator, noodle making
81719	Machine operator, laminating (papermaking)	81258	Machine operator, numerical control (metalworking)
81420	Machine operator, laminating (plastics)	81659	Machine operator, nut grinding
81412	Machine operator, laminating (rubber)	81830	Machine operator, packing
81259	Machine operator, lapping (metalworking)	81432	Machine operator, paper bag making
75361	Machine operator, lasting (shoemaking)	81890	Machine operator, paper baling
81591	Machine operator, laundering	81719	Machine operator, paper coating
81591	Machine operator, laundry press	81719	Machine operator, paper corrugating
73154	Machine operator, lens grinding	81719	Machine operator, paper creping
73155	Machine operator, lens polishing	81719	Machine operator, paper crinkling
81432	Machine operator, lining (cardboard)	81439	Machine operator, paper embossing
81522	Machine operator, link and link- knitting (garment)	81432	Machine operator, paper product making
73211	Machine operator, ludlow casting (printing)	81719	Machine operator, paper varnishing
81642	Machine operator, macaroni making	81719	Machine operator, paper waxing
81619	Machine operator, meat processing	81719	Machine operator, paperboard
81259	Machine operator, metal bending	81712	Machine operator, papermaking
81255	Machine operator, metal boring	81622	Machine operator, pasteurising (dairy products)
72241	Machine operator, metal buffing and polishing	81630	Machine operator, pearling (grain milling)
81255	Machine operator, metal drilling	81739	Machine operator, pencil-making
81257	Machine operator, metal grinding	75361	Machine operator, perforating (shoe finishing)
		81331	Machine operator, pharmaceutical products
		73211	Machine operator, photo- composing
		81841	Machine operator, photocopying

81320	Machine operator, photograph printing	81412	Machine operator, rubber laminating
81320	Machine operator, photographic products	81739	Machine operator, sanding (woodworking)
73211	Machine operator, photo-type-setting	81655	Machine operator, sauce making
81254	Machine operator, planing (metalworking)	81611	Machine operator, sausage making
81739	Machine operator, planing (woodworking)	81259	Machine operator, sawing (metalworking)
81420	Machine operator, plastic product making	81259	Machine operator, screw cutting (metalworking)
81420	Machine operator, plastics compression moulding	81830	Machine operator, sealing and capping
81420	Machine operator, plastics extruding	81522	Machine operator, seamless hosiery knitting
81420	Machine operator, plastics injection	81630	Machine operator, separating (grain milling)
81420	Machine operator, plastics laminating	81842	Machine operator, sewing (books)
81723	Machine operator, plywood core laying	81531	Machine operator, sewing (garments)
72241	Machine operator, polishing (metalworking)	81256	Machine operator, shaping (metal-working)
81420	Machine operator, polyfoam product-making	81739	Machine operator, shaping (woodworking)
81420	Machine operator, polythene bag making	81259	Machine operator, shearing (metal cutting)
81257	Machine operator, precision grinding (metalworking)	81549	Machine operator, singeing
81890	Machine operator, press baling	81332	Machine operator, soap making
81591	Machine operator, pressing (laundry service)	81522	Machine operator, sock knitting
81841	Machine operator, printing	75361	Machine operator, sole sewing
81711	Machine operator, pulping (wood pulp)	81630	Machine operator, spice milling
81653	Machine operator, refining (oils and fats)	81849	Machine operator, stapling
83425	Machine operator, road surface laying	81522	Machine operator, stocking knitting
83425	Machine operator, road-making	83425	Machine operator, strike-off (concrete paving)
81678	Machine operator, roasting (cocoa beans)	81660	Machine operator, sugar processing and refining
81678	Machine operator, roasting (coffee beans)	81626	Machine operator, sweets making
81419	Machine operator, rubber coating	81676	Machine operator, syrup making
81419	Machine operator, rubber dipping	81331	Machine operator, tableting
81419	Machine operator, rubber embossing	83429	Machine operator, tamping (construction)
81419	Machine operator, rubber extruding	83425	Machine operator, tar spreading
		81677	Machine operator, tea blending
		81143	Machine operator, terrazzo tile making
		81541	Machine operator, textile bleaching

81543	Machine operator, textile shrinking	81255	Machine setter, drilling (metalworking)
81543	Machine operator, textile washing	81259	Machine setter, gear cutting (metalworking)
81432	Machine operator, toilet paper roll	81256	Machine setter, honing (metalworking)
81339	Machine operator, toiletry products	81259	Machine setter, lapping (metalworking)
83421	Machine operator, trench digging	81259	Machine setter, metal bending
81890	Machine operator, tube-filling (except compressed and liquefied gas)	81255	Machine setter, metal boring
83426	Machine operator, tunnelling (construction)	81255	Machine setter, metal drilling
81512	Machine operator, twisting (thread and yarn)	81257	Machine setter, metal grinding
73211	Machine operator, type-casting	81256	Machine setter, metal honing
81419	Machine operator, tyre making	81253	Machine setter, metal milling
81419	Machine operator, tyre vulcanising	81254	Machine setter, metal planing
81719	Machine operator, varnishing (papermaking)	81259	Machine setter, metal sawing
81722	Machine operator, veneer	81256	Machine setter, metal shaping
81642	Machine operator, vermicelli making	81251	Machine setter, metalworking (general)
81522	Machine operator, warp knitting	81253	Machine setter, milling (metalworking)
81830	Machine operator, washing (bottles)	81259	Machine setter, nail making
81719	Machine operator, waxing (papermaking)	81258	Machine setter, numerical control (metalworking)
81521	Machine operator, weaving	81739	Machine setter, pencil making
81712	Machine operator, wet-end (papermaking)	81254	Machine setter, planing (metalworking)
81512	Machine operator, winding (thread and yarn)	81739	Machine setter, planing (woodworking)
81243	Machine operator, wire coating	81257	Machine setter, precision grinding (metalworking)
81739	Machine operator, wood planing	81739	Machine setter, sanding (woodworking)
81729	Machine operator, wood shavings	81259	Machine setter, sawing (metalworking)
81731	Machine operator, woodworking (general)	81259	Machine setter, screw cutting (metalworking)
81439	Machine operator, wrapping (cardboard box covering)	81256	Machine setter, shaping (metalworking)
81830	Machine packer	81739	Machine setter, shaping (woodworking)
72149	Machine riveter	81259	Machine setter, shearing (metal cutting)
81255	Machine setter, boring (metalworking)	81739	Machine setter, wood planing
81739	Machine setter, boring (woodworking)	81739	Machine setter, wood routing
81739	Machine setter, carving (woodworking)	81739	Machine setter, wood shaping
81259	Machine setter, die sinking (metalworking)	81731	Machine setter, woodworking (general)
		81599	Machine setting, knitting
		81531	Machine sewer (general)

72242	Machine-tool grinder	13460	Manager, bank (branch)
81251	Machine-tool operator (general)	14121	Manager, banquet (hotel)
21442	Machinery and tools engineer (industrial)	14111	Manager, boarding house
72335	Machinery erector and installer	12111	Manager, budget
72332	Machinery fitter (general)	12212	Manager, business development
72332	Machinery fitter-assembler (general)	12242	Manager, call centre
31720	Machinery inspector (government)	14321	Manager, casino operations
72331	Machinery mechanic (general)	14122	Manager, catering services
31155	Machining and tooling technician	14201	Manager, chain store
31155	Machining technician	13410	Manager, child care services
34422	Magician	14323	Manager, cinema
26120	Magistrate	12211	Manager, commercial (manufacturing or mining company)
21110	Magnetism physicist	13301	Manager, computer and systems Information
91121	Maid (hotel)	13303	Manager, computer operations and network
91309	Maid, kitchen (private service)	13231	Manager, construction
91122	Maid, linen (hotel)	12130	Manager, corporate planning
51601	Mail depot supervisor	14330	Manager, cultural centre
14201	Mail order store manager	12220	Manager, customer relations (hotel)
51609	Mail sorter (manual)	12241	Manager, customer service
51601	Mail supervisor	14201	Manager, departmental store
83223	Mail van driver	14325	Manager, discotheque
51602	Mailman	14201	Manager, discount store
71263	Mains layer and jointer	13241	Manager, distribution
71151	Maintenance carpenter	13459	Manager, education (dean of education institution)
74110	Maintenance electrician (building)	13459	Manager, education (registrar)
72339	Maintenance fitter	13304	Manager, electronic data processing
71331	Maintenance man, building	21333	Manager, energy
51311	Maitre d'hotel	13291	Manager, engineering
61900	Maize farmer	12191	Manager, estate
73211	Maker-up (photo-type-setting)	12191	Manager, facilities maintenance
73211	Maker-up, printing	12191	Manager, facilities management
51423	Make-up artist (stage and studio)	13101	Manager, farm
81673	Malt cooker	14121	Manager, fast food restaurant
81672	Malt fireman	12111	Manager, finance
81679	Malt vinegar maker	13460	Manager, financial and insurance services
81671	Maltster	13460	Manager, financial institution branch
32111	Mammographer	31711	Manager, fire safety
24211	Management consultant	13101	Manager, fishery
33491	Management executive (general)	14121	Manager, food and beverage department (hotel)
12111	Manager, accounting (financial department)	13243	Manager, freight traffic Department
12112	Manager, administration		
12220	Manager, advertising		
13430	Manager, aged care services		
13101	Manager, agriculture		
13243	Manager, air traffic operations		
14322	Manager, amusement park		
14330	Manager, arts		

14111	Manager, front office (hotel)	13101	Manager, production (farm)
24133	Manager, fund	13211	Manager, production (manufacturing)
14324	Manager, garden	13231	Manager, project (construction)
11122	Manager, general (statutory board)	12191	Manager, property
14111	Manager, guest-house	12220	Manager, public relations
13420	Manager, health services	12220	Manager, publicity
14111	Manager, hostel	13242	Manager, purchasing
14111	Manager, hotel	13292	Manager, quality assurance
12121	Manager, human resource	12230	Manager, research and development
12122	Manager, industrial relations	14121	Manager, restaurant
13301	Manager, information systems	14201	Manager, retail trade
13304	Manager, information technology	24132	Manager, risk (financial)
13460	Manager, insurance services manager	24132	Manager, risk management
13304	Manager, IT service	12211	Manager, sales
14325	Manager, karaoke lounge	13243	Manager, sea traffic operations
12192	Manager, landscape operations	14201	Manager, self-service store
14111	Manager, lodging house	13291	Manager, shipyard
13241	Manager, logistics	13440	Manager, social welfare
14201	Manager, mail order store	13302	Manager, software and applications
12211	Manager, marketing	14310	Manager, sports centre
13299	Manager, mining	26549	Manager, stage
14111	Manager, motel	13241	Manager, stores department (manufacturing company)
14324	Manager, nature reserve	14201	Manager, supermarket
13303	Manager, network and communications	13242	Manager, supplies
14325	Manager, nightclub	13291	Manager, technical
13231	Manager, operations (construction)	13303	Manager, telecommunications operations
13243	Manager, operations (port)	14322	Manager, theme park
13244	Manager, operations (postal service)	12123	Manager, training
13303	Manager, operations (telecommunications)	13243	Manager, transport operations department
13243	Manager, operations (transport)	24134	Manager, treasury
14324	Manager, park	13241	Manager, warehousing department
13243	Manager, passenger traffic department	14202	Manager, wholesale trade
12121	Manager, personnel	21493	Manager, workplace safety and health
12130	Manager, policy and planning	11201	Managing director
12130	Manager, policy planning	51422	Manicurist
13243	Manager, port operations	52411	Mannequin
13244	Manager, postal service operations	33229	Manufacturer's agent
12191	Manager, premises and facilities maintenance	33229	Manufacturer's sales representative
12191	Manager, premises maintenance	21411	Manufacturing engineer (general)
13242	Manager, procurement	31006	Manufacturing engineer, assistant
13231	Manager, production (construction)		

31171	Manufacturing engineering technician (general)	31591	Master, dry dock
13211	Manufacturing plant manager	31591	Master, graving dock
71131	Marble polisher	31521	Master, ship
71220	Marble setter	83129	Master, yard (railway)
21444	Marine architect	31522	Mate, first (ship)
21319	Marine biologist	31522	Mate, second (ship)
21654	Marine cartographer	31522	Mate, ship's
31186	Marine draughtsperson	93339	Material handler (factory)
31186	Marine draughtsman	43221	Material planning clerk
72334	Marine engine fitter	21492	Materials engineer
72334	Marine engine fitter-assembler	33149	Mathematical technician
21443	Marine engineer (shore-based)	21211	Mathematician
31512	Marine engineer officer	32201	Matron (nursing)
31186	Marine engineering draughtsman	51503	Matron-housekeeper
31186	Marine engineering draughtsperson	75343	Mattress maker
31159	Marine engineering technician	75343	Mattress sewer
71262	Marine pipe fitter	75119	Meat boner
54121	Marine policeman	75119	Meat curer
31524	Marine superintendent (deck)	75119	Meat cutter
31513	Marine superintendent (technical)	75119	Meat dresser (general)
31513	Marine superintendent engineer	75119	Meat grader
21653	Marine surveyor	81619	Meat processing machine operator
31157	Marine surveyor (ship and nautical)	75119	Meat smoker
75323	Marker, garment cutting	72333	Mechanic, accounting and calculating machine
71329	Marker, highway lane	72321	Mechanic, aeronautical
72229	Marker, metal	72339	Mechanic, agricultural machinery
72139	Marker, sheet metal	71271	Mechanic, air-conditioning and refrigerating equipment
72149	Marker, structural metal	72321	Mechanic, aircraft engine
75229	Marker, woodworking	72311	Mechanic, automobile
24312	Market research analyst	72311	Mechanic, bus
43142	Market research interviewer	72333	Mechanic, business machine
40000	Market research supervisor	74222	Mechanic, computer and related equipment
24312	Market researcher	72333	Mechanic, construction machinery
41109	Marketing assistant	72339	Mechanic, diesel engine (except motor vehicle)
33221	Marketing executive	72333	Mechanic, earth moving equipment
12211	Marketing manager	74123	Mechanic, electrical household appliance
81830	Marking machine operator, goods	72339	Mechanic, engine-room (ship)
34222	Martial arts instructor	72339	Mechanic, farm machinery
81673	Mash-tub man (malt preparation)	72311	Mechanic, garage (automobile)
71131	Mason, monumental	72321	Mechanic, hydraulic systems (aircraft)
71132	Mason, stone (construction)	72333	Mechanic, industrial machinery
71230	Mason, stucco	72331	Mechanic, machinery (general)
32552	Massage therapist		
32552	Masseur (medical)		
51491	Masseur (non-medical)		
32552	Masseur, sports		
71151	Mast and spar maker, wood		
26523	Master, chorus		

72333	Mechanic, metalworking machine tool	21447	Mechanical engineer (heating, ventilation and refrigeration)
72333	Mechanic, mining machinery	21442	Mechanical engineer (industrial machinery and tools)
72311	Mechanic, motor (general)	21443	Mechanical engineer (marine)
72311	Mechanic, motor truck	21449	Mechanical engineer (motors and engines, except marine)
72311	Mechanic, motor vehicle (automobile)	31004	Mechanical engineer, assistant
72311	Mechanic, motor-cycle	31151	Mechanical engineering technician (general)
72333	Mechanic, office machine	31159	Mechanical engineering technician (motors and engines)
72339	Mechanic, plant maintenance	82132	Mechanical products checker (quality assurance)
72333	Mechanic, printing machinery	82132	Mechanical products quality checker
74221	Mechanic, radar	82132	Mechanical products tester
74212	Mechanic, radio and television receiving set	83421	Mechanical shovel operator
74221	Mechanic, radio transmitter	83490	Mechanical sweeper driver
72321	Mechanic, service (aircraft engine)	21110	Mechanics physicist
72339	Mechanic, ship's engine-room	31191	Mechantronics technician
74212	Mechanic, sound reproducing and recording equipment	32111	Medical diagnostic radiographer
74224	Mechanic, telecommunications and telephone	32120	Medical laboratory technician
74224	Mechanic, telegraphic	31171	Medical manufacturing specialist
74224	Mechanic, telephone and telecommunications	22125	Medical oncologist
74224	Mechanic, telephone and telegraph	22146	Medical pathologist
74212	Mechanic, television and radio receiving set	34310	Medical photographer
74221	Mechanic, television transmitter	22110	Medical practitioner (general)
72333	Mechanic, textile machinery	32112	Medical radiation therapist
72311	Mechanic, tractor	42243	Medical receptionist
72311	Mechanic, transmission (motor vehicle)	33223	Medical sales representative
72311	Mechanic, truck	21346	Medical scientist
72339	Mechanic, turbine (except aircraft turbine)	22149	Medical service physician (school)
72333	Mechanic, typewriter	26353	Medical social worker
74212	Mechanic, video reproducing and recording equipment	32114	Medical x-ray technician
72333	Mechanic, woodworking machinery	22129	Medicine physician, nuclear
72311	Mechanic, workshop (automobile)	39910	Medium
31182	Mechanical draughtsman	11110	Member of parliament
31182	Mechanical draughtsperson	51412	Men's hairdresser
21445	Mechanical engineer (aeronautical)	34129	Mental health worker
21446	Mechanical engineer (automotive)	96253	Mental hospital attendant
21441	Mechanical engineer (general)	26353	Mental welfare worker
		33231	Merchandise buyer (wholesale or retail trade)
		33231	Merchandise purchaser (wholesale or retail trade)
		14204	Merchant, wholesale (working proprietor)
		96259	Merry-go-round operator

51202	Mess cook (ship)	71210	Metal roofer
51312	Mess steward	81259	Metal sawing machine operator
96259	Messenger	81256	Metal shaping machine operator
81220	Metal annealer	81256	Metal shaping machine setter-operator
81259	Metal bending machine operator	72144	Metal shipwright
81259	Metal bending press operator	81259	Metal spinner
81255	Metal boring machine operator	81245	Metal sprayer
81255	Metal boring machine setter-operator	81220	Metal temperer
72241	Metal buffing and polishing machine operator	72339	Metal working machine-tool fitter
81220	Metal case hardener	72339	Metal working machine-tool fitter-assembler
81219	Metal caster	21130	Metallurgical chemist
81248	Metal cleaner	31199	Metallurgical technician (extractive)
81211	Metal converting furnace operator	31193	Metallurgical technician (physical)
72122	Metal cutter (flame)	21462	Metallurgist
81255	Metal drilling machine operator	21462	Metallurgist, extractive
81255	Metal drilling machine setter-operator	21462	Metallurgist, foundry
73219	Metal engraving etcher (printing plate or roller)	21462	Metallurgist, physical
81257	Metal grinding machine operator	21469	Metal-mining engineer
81257	Metal grinding machine setter-operator	81259	Metalworking automatic transfer machine operator
81256	Metal honing machine operator	81252	Metalworking lathe operator
81256	Metal honing machine setter-operator	81252	Metalworking lathe setter-operator
72229	Metal marker	81251	Metalworking machine setter-operator (general)
81211	Metal melting furnaceman	72333	Metalworking machine-tool mechanic
81253	Metal milling machine operator	81259	Metalworking machine-tool operator (general)
81253	Metal milling machine setter-operator	73119	Meteorological instrument maker
31199	Metal mining technician	31119	Meteorological technician
73120	Metal musical wind instrument maker	21120	Meteorologist
72223	Metal pattern-maker	96292	Meter reader
81254	Metal planing machine operator	21419	Methods engineer
81254	Metal planing machine setter-operator	21319	Microbiologist
72149	Metal plate bender	82122	Microelectronics assembler
81219	Metal pourer	21141	Micropalaeontologist
81259	Metal press operator	59009	Microphone operator
73219	Metal printing plate, roller and die engraver	34310	Microphotographer
73219	Metal printing roller engraver	32201	Midwife, auxiliary
82199	Metal products assembler	61210	Milk producer (farm)
81255	Metal reamer operator	61210	Milker
81255	Metal reamer setter-operator	61210	Milking machine operator
81211	Metal refining furnace operator	81311	Miller, chemicals
81211	Metal reheating furnaceman	81653	Miller, coconut oil
81215	Metal rolling mill worker	81653	Miller, copra
		81653	Miller, gingili
		81630	Miller, grain

81630	Miller, mustard	81819	Mixer, glaze
81630	Miller, oil-seed	81311	Mixer, paint
81630	Miller, rice	75123	Mixer, paste (pies)
81630	Miller, spice	35219	Mixer, sound
81699	Miller, tapioca	81626	Mixer, sugar confectionery
81311	Miller-grinder (chemical and related processes)	75190	Mixer, tobacco
75390	Milliner	81311	Mixing and blending machine operator (chemical and related processes)
81253	Milling machine operator (metalworking)	81311	Mixing machine operator (chemical and related processes)
81630	Milling machine operator, corn	81693	Mixing machine operator, feed
81630	Milling machine operator, grain	81411	Mixing mill operator, rubber
81630	Milling machine operator, spice	81144	Mixing plant operator, concrete
81253	Milling machine setter-operator (metalworking)	83431	Mobile crane operator
81819	Millman, clay	83000	Mobile machinery supervisor and general foreman
81819	Millman, potter's	52411	Model (clothing display)
81411	Millman, rubber	75229	Model maker (wood)
72333	Millwright	52419	Model, artist's
81139	Miner	52411	Model, fashion
81149	Mineral crushing machine operator	73141	Modeller, pottery and porcelain
81149	Mineral ore and stone treating plant operator	81626	Mogul operator (sugar confectionery)
21149	Mineralogist	33112	Money broker
31199	Mines inspector	42113	Money changer
26512	Miniature painter	42132	Moneylender
21469	Mining engineer (coal)	39910	Monk
21469	Mining engineer (metal)	73211	Monotype casting machine operator (printing)
21461	Mining engineer (petroleum and natural gas)	73211	Monotype keyboard operator
31199	Mining engineering technician	71131	Monument carver-setter
72333	Mining machinery mechanic	71131	Monumental mason
13299	Mining manager	43129	Mortgage clerk
81139	Mining plant operator	51931	Mortician
31199	Mining technician	81739	Morticing machine operator (woodworking)
11110	Minister (government)	81739	Morticing machine setter-operator (woodworking)
29011	Minister of religion	51931	Mortuary assistant
73162	Mirror silverer	71220	Mosaic cutter and setter
72249	Mirror-finish polisher (metalworking)	14112	Motel keeper (working proprietor)
29019	Missionary	14111	Motel manager
61900	Mixed farm worker	35213	Motion picture camera operator
81819	Mixer (glass making)	26513	Motion picture cartoonist
75390	Mixer and blender, fibre	26542	Motion picture director
81144	Mixer operator, concrete	26541	Motion picture producer
81819	Mixer, abrasives	21419	Motion study engineer
81819	Mixer, clay	31179	Motion study technician
75122	Mixer, dough (bread)	83509	Motor boatman
75390	Mixer, fibre	72311	Motor bus mechanic
75123	Mixer, flour confectionery		

21446	Motor car designer	73139	Mounter, jewellery
83222	Motor car driver (private)	73219	Mounter, photogravure
83221	Motor car driver (taxi)	73219	Mounter, plate
72311	Motor car mechanic	73219	Mounter, plate (photo-engraving)
83210	Motor cyclist (delivery man)	93336	Mover, furniture
72311	Motor lorry mechanic	31597	MRT operations officer (traffic)
72311	Motor mechanic (general)	31572	MRT service supervisor
54121	Motor patrolman (police)	42149	MRT station assistant (fare collection)
72311	Motor truck mechanic	91139	MRT station cleaner
72311	Motor van mechanic	31599	MRT station master
71322	Motor vehicle body repainter	31599	MRT supervisor (station master)
91220	Motor vehicle cleaner	31597	MRT traffic officer
74110	Motor vehicle electrician	83110	MRT train operator
72311	Motor vehicle fitter	81139	Mud-plant operator (oil and gas wells)
72311	Motor vehicle mechanic (automobile)	34364	Multimedia animator
71322	Motor vehicle painter	34363	Multimedia artist
91220	Motor vehicle polisher	34362	Multimedia designer
52202	Motor vehicle sales representative	25123	Multimedia developer
83210	Motorcycle delivery man	25123	Multimedia programmer
72311	Motor-cycle mechanic	26212	Museum curator
54121	Motor-cycle patrolman	54123	Museum guard
83490	Motorised farm machinery operator	51139	Museum guide
81823	Motorman, ship	14330	Museum manager
34210	Motor-racing driver	34332	Museum technician
83210	Motor-tricycle driver (goods)	61112	Mushroom farm supervisor
31156	Mould designer	61112	Mushroom farm worker
72146	Mould lofter	61112	Mushroom farmer
73141	Mould maker, pottery and porcelain	26522	Music composer
72111	Moulder (metal)	26421	Music critic
73149	Moulder, abrasive wheel	26529	Music director
81419	Moulder, air-bag (tyre making)	26523	Music director (band)
73213	Moulder, electrotype	26523	Music director (choir)
73152	Moulder, glass lens	26543	Music director (concert)
72111	Moulder, jarring machine	26543	Music director (film)
72111	Moulder, jolting machine	26523	Music director (orchestra)
72111	Moulder, squeeze machine	26543	Music director (radio)
73212	Moulder, stereotype	26543	Music director (stage)
72111	Moulder, stripping-plate machine	26543	Music director (theatre)
73142	Moulder, tile and brick	26543	Music director (TV)
81419	Moulder, tyre	36204	Music instructor (extracurriculum)
81819	Moulding machine operator, glass	73219	Music printing engraver
81420	Moulding machine operator, plastics (compression)	36204	Music teacher (private tuition)
81420	Moulding machine operator, plastics (injection)	73120	Musical instrument maker (stringed)
81419	Moulding press operator, rubber	73120	Musical instrument maker (woodwind)
		73120	Musical instrument maker, metal (wind)
		73120	Musical instrument repairer

73120 Musical instrument tuner
 26529 Musical programme director
 26521 Musician, instrumental
 81630 Mustard miller
 21312 Mycologist

N

81259 Nail making machine operator
 53111 Nanny
 54122 Narcotics officer
 34332 Naturalist (taxidermist)
 51132 Nature guide
 14324 Nature reserve manager
 32300 Naturopath
 73119 Nautical instrument maker
 21444 Naval architect
 31522 Navigating officer, ship's
 31533 Navigator, flight
 X3000 Navy (Singapore)
 72229 Needle maker
 74129 Neon-lighting electrician
 81599 Net maker (fishing)
 25220 Network administrator
 13303 Network and communications
 manager
 25230 Network architect
 25230 Network engineer
 35120 Network support technician
 25230 Network systems analyst
 22129 Neurologist
 22146 Neuropathologist
 22134 Neurosurgeon
 34412 News anchor
 26422 News editor (newspaper)
 26422 News editor (periodical)
 34310 News photographer
 34411 News reader, radio
 34412 News reader, television
 34411 Newscaster (radio)
 34412 Newscaster (television)
 26421 Newspaper correspondent
 96291 Newspaper delivery man
 26422 Newspaper editor
 26422 Newspaper editor-in-chief
 26421 Newspaper reporter
 26422 Newspaper sub-editor
 52130 Newsvendor
 51330 Night club hostess
 96261 Night watchman

14325 Nightclub manager
 81314 Nitric acid plant operator
 81220 Nitriдер
 21469 Non-metalliferous mining
 engineer
 39910 Non-ordained religious associate
 professional
 81642 Noodle making machine operator
 51603 Notice server
 26411 Novelist
 22129 Nuclear medicine physician
 81860 Nuclear power reactor operator
 81258 Numerical control machine
 operator (metalworking)
 81258 Numerical control machine setter-
 operator (metalworking)
 39910 Nun
 32201 Nurse (anaesthetist)
 32201 Nurse (clinic)
 32201 Nurse (maternity)
 32201 Nurse (obstetrics)
 32201 Nurse (orthopaedic)
 32201 Nurse (paediatric)
 32201 Nurse (psychiatric)
 32201 Nurse anaesthetist
 32201 Nurse educator
 32201 Nurse, clinical
 32511 Nurse, dental
 32511 Nurse, dental (school)
 32201 Nurse, industrial
 32201 Nurse, occupational health
 32202 Nurse, private
 32201 Nurse, professional (general)
 32201 Nurse, public health
 32400 Nurse, veterinary
 53112 Nursemaid
 36100 Nursery school teacher
 53113 Nursery worker (child care)
 61132 Nursery worker (farm)
 96253 Nursing aid
 53201 Nursing aide (clinic, hospital)
 53209 Nursing aide (home)
 13430 Nursing home director
 61900 Nut farmer
 81659 Nut grinding machine operator
 81259 Nut maker
 61900 Nutmeg farm worker
 32522 Nutritionist
 32522 Nutritionist, public health
 32522 Nutritionist, sports
 81315 Nylon spinner

O

22144	Obstetrician	22149	Oncologist, radiation
24231	Occupational analyst	81211	Open hearth furnaceman (steel)
32572	Occupational health inspector	83431	Opening-bridge operator
32201	Occupational health nurse	26524	Opera singer
22631	Occupational health professional	33493	Operations liaison assistant
32572	Occupational health officer	13243	Operations manager (air traffic)
22149	Occupational physician	13231	Operations manager (construction)
26340	Occupational psychologist	13243	Operations manager (port)
32560	Occupational therapist	13244	Operations manager (postal service)
21141	Oceanographer, geological	13243	Operations manager (sea traffic)
21142	Oceanographer, geophysical	13303	Operations manager (telecommunications)
96293	Odd job person	13243	Operations manager (transport)
75119	Offal man	14321	Operations manager, casino
96251	Office attendant	13303	Operations manager, computer
96251	Office boy	31594	Operations officer, flight
52303	Office cashier	31597	Operations officer, MRT (traffic)
91131	Office cleaner	21212	Operations research analyst
41101	Office clerk (general)	35110	Operator, computer
82121	Office machine assembler (electrical)	35110	Operator, computer high-speed printer
82122	Office machine assembler (electronic)	35110	Operator, computer peripheral equipment
72333	Office machine mechanic	22145	Ophthalmologist
72339	Office machinery fitter	73153	Optical glass cutter
72339	Office machinery fitter-assembler	73153	Optical glass slicer
40000	Office supervisor (general)	73153	Optical glass slitter
33149	Officer, actuarial	73113	Optical instrument maker and repairer
33593	Officer, building permit licensing	32541	Optician (ophthalmic)
33593	Officer, business permit licensing	32542	Optician, dispensing
33591	Officer, excise	32542	Optician, refracting
33330	Officer, job placement	21110	Optics physicist
34331	Officer, library	32541	Optometrist
32572	Officer, occupational health	32512	Oral health therapist
33510	Officer, passport checking	32512	Oral hygienist
33593	Officer, passport issuing	22612	Oral surgeon
33142	Officer, research (statistical)	61900	Orchard supervisor
33592	Officer, social benefits	61900	Orchard worker
33141	Officer, statistical	26523	Orchestra conductor
33591	Officer, tax	26522	Orchestrator
81841	Offset pressman	61131	Orchid farmer
72156	Oil and gas well drilling rigger	21325	Orchidologist
81871	Oil blender (petroleum refining)	43221	Order clerk (materials)
75190	Oil expeller	83502	Ordinary seaman
81652	Oil pressman (edible oils)	81149	Ore crusher operator
33241	Oil trader	81211	Ore smelting furnace operator
81859	Oiler and greaser (except ship's engines)	73120	Organ builder
81823	Oiler and greaser, ship's	73120	Organ pipe maker
81139	Oilwell fishing-tool operator		

73120 Organ tuner
 21419 Organisation and methods engineer
 33320 Organiser, convention
 33320 Organiser, exhibition
 33290 Organiser, sales (regional or overseas)
 33463 Organiser, staff training
 34129 Organising secretary (community centre)
 26521 Organist
 71230 Ornamental plasterer
 72139 Ornamental sheet metal worker
 21313 Ornithologist
 22612 Orthodontist
 32142 Orthopaedic appliance maker and repairer
 75362 Orthopaedic footwear maker
 22135 Orthopaedic surgeon
 32141 Orthopaedic technician
 32541 Orthoptist
 32141 Orthotic technician
 32142 Orthotist
 32591 Osteopath
 22129 Osteopathic physician
 22148 Otolaryngologist
 22148 Otorhinolaryngologist
 71311 Outdoor painter (construction)
 52422 Outdoor salesman
 71120 Oven bricklayer
 81312 Oven tender (paint drying)
 81641 Ovenman (biscuits)
 75122 Ovenman (bread)
 81312 Ovenman (chemical and related processes)
 75123 Ovenman (flour confectionery)
 81811 Ovenman, brick and tile
 81811 Ovenman, pottery and porcelain
 74131 Overhead wireman (electric power)
 74131 Overhead wireman (electric traction)
 74223 Overhead wireman (telephone and telegraph)
 81872 Oxygen filler
 62219 Oyster farm worker

P

34352 Package designer
 93201 Packer, hand
 81830 Packer, machine
 81830 Packing machine operator
 81320 Paco-machine operator
 22136 Paediatric surgeon
 22126 Paediatrician
 21130 Paint chemist
 81311 Paint mixer
 26512 Painter (artist)
 71323 Painter, advertisement (sign writing)
 71322 Painter, automobile
 71329 Painter, automobile (motor vehicle assembly)
 71322 Painter, automobile repair
 26512 Painter, batik
 71311 Painter, brush (building)
 73169 Painter, brush (except construction)
 71311 Painter, building
 73162 Painter, ceramic
 71311 Painter, construction
 73162 Painter, glass
 71329 Painter, hand-dip (except glass and ceramics)
 71311 Painter, house
 26512 Painter, miniature
 71322 Painter, motor vehicle
 71311 Painter, outdoor (construction)
 26512 Painter, portrait
 71329 Painter, scenery (stage set)
 71329 Painter, set (motion picture)
 71321 Painter, ship hull and structural steel
 71329 Painter, ship's interior
 71323 Painter, sign
 71311 Painter, spray (building)
 73162 Painter, spray (ceramics)
 71324 Painter, spray (except ships, motor vehicles and signs)
 71329 Painter, spray (motor vehicle assembly)
 71322 Painter, spray (motor vehicle)
 71329 Painter, stage scenery
 71321 Painter, structural steel and ship hull

71329	Painter-retoucher (manufacturing)	11110	Parliamentarian
26519	Painting restorer	26112	Parliamentary draughtsman
21141	Palaeontologist	26354	Parole officer
51910	Palmist	71220	Parquetry floor layer
72139	Panel beater (aircraft)	71220	Parquetry worker
72133	Panel beater (vehicle)	71230	Partition installer (plaster)
73219	Pantograph engraver operator	13243	Passenger traffic department manager
73161	Pantograph operator (glass decorating)	33510	Passport checking officer
81432	Paper bag and envelope maker	33593	Passport issuing officer
81890	Paper baling machine operator	75123	Paste mixer (pies)
81431	Paper box maker	81675	Pasteuriser attendant (malt liquor)
81719	Paper coating machine operator	81622	Pasteurising machine operator, dairy product
81719	Paper corrugating machine operator	29011	Pastor
81719	Paper creping machine operator	75123	Pastry baker
81719	Paper crinkling machine operator	51202	Pastry cook (restaurant)
81439	Paper embossing machine operator	75123	Pastry maker
73219	Paper embossing press operator (printing)	29090	Patent agent
73149	Paper maker, abrasive-coated	22500	Pathologist, animal
81320	Paper maker, photographic	22146	Pathologist, clinical
81712	Paper making machine operator	22146	Pathologist, forensic
81432	Paper novelty maker	22146	Pathologist, medical
81432	Paper product making machine operator	21323	Pathologist, plant
81711	Paper pulp beater operator	26321	Pathologist, social
81711	Paper pulp bleacher operator	32532	Pathologist, speech
81711	Paper pulp digester operator	22146	Pathologist, surgical
81711	Paper pulp preparation plant operator	22500	Pathologist, veterinary
81432	Paper strawmaker	32120	Pathology technician
81719	Paper varnishing machine operator	54140	Patrolman (private establishment)
81719	Paper waxing machine operator	54199	Patrolman, forest
81719	Paperboard machine operator	54121	Patrolman, highway
71312	Paperhanger	54121	Patrolman, motor (police)
81871	Paraffin plant operator	54121	Patrolman, motor-cycle
34110	Paralegal	54121	Patrolman, police
34110	Paralegal associate professional	54140	Patrolman, security
32594	Paramedic	75229	Pattern-maker (wood)
21313	Parasitologist	75322	Pattern-maker, garment
43239	Parcel clerk (railway)	75361	Pattern-maker, shoe
96130	Park cleaner	83425	Paving machine operator, concrete
92149	Park maintenance man	71120	Paviour installer
14324	Park manager	42131	Pawnbroker
54194	Park ranger	43114	Paymaster
96130	Park sweeper	43114	Payroll clerk
31603	Parks officer	81630	Pearling machine operator (grain milling)
		93310	Pedal vehicle driver
		72339	Pedal-cycle repairer
		93310	Pedaller, trishaw

83490	Pedestrian tractor operator	31162	Petroleum refining technician
22612	Pedodontist	21141	Petrologist
75390	Pelt dresser, tanner and fellmonger	73139	Pewtersmith
75390	Pelt dyer	21130	Pharmaceutical chemist
75390	Pelt finisher	81331	Pharmaceutical products machine operator
75390	Pelt grader	33223	Pharmaceutical representative
81739	Pencil making machine operator	33223	Pharmaceutical sales representative
81739	Pencil making machine setter- operator	32130	Pharmaceutical technician
26321	Penologist	22621	Pharmacist
96251	Peon	22621	Pharmacist (dispensing)
61900	Pepper farm worker	22621	Pharmacist, hospital
75361	Perforating machine operator (shoe finishing)	22629	Pharmacist, industrial
51943	Performer in crocodile farm	22621	Pharmacist, retail
81314	Perfume distiller	21341	Pharmacologist
81314	Perfume stillman	31419	Pharmacology technician
26422	Periodical editor	26339	Philosopher
26422	Periodical sub-editor	26332	Philosopher, political
22612	Periodontist	73211	Photo-composing machine operator
11121	Permanent secretary	81841	Photocopying machine operator
41201	Personal assistant	73214	Photo-engraver
51509	Personal butler	73219	Photo-engraving finisher
41103	Personnel assistant	73219	Photo-engraving plate grainer
41103	Personnel clerk	73219	Photo-engraving plate moulder
33461	Personnel executive	73219	Photo-engraving prover
12121	Personnel manager	21659	Photogrammetrist
33461	Personnel officer	81320	Photograph developer
75401	Pest controller	81320	Photograph printer
75401	Pest exterminator	81320	Photograph printing machine operator
51941	Pet groomer	34310	Photographer (commercial illustrator)
44199	Petition writer	34310	Photographer (general)
21453	Petrochemicals engineer	34310	Photographer, advertising
31163	Petrochemicals technician (chemical engineering)	34310	Photographer, aerial
52491	Petrol pump attendant	34310	Photographer, architectural
52491	Petrol service station attendant	34310	Photographer, commercial
21461	Petroleum and natural gas engineer	34310	Photographer, fashion
31194	Petroleum and natural gas extraction technician	34310	Photographer, industrial
21130	Petroleum chemist	34310	Photographer, medical
81871	Petroleum desulphurisation treater	34310	Photographer, news
81871	Petroleum refining blender	73215	Photographer, photogravure
21452	Petroleum refining engineer	34310	Photographer, police
81871	Petroleum refining plant control man	34310	Photographer, portrait
81871	Petroleum refining pumpman	34310	Photographer, press
81871	Petroleum refining stillman	34310	Photographer, scientific
		34310	Photographer, sports
		81320	Photographic dark room worker

73119	Photographic equipment assembler	21110	Physicist, sound
81320	Photographic film and paper maker	31112	Physics technician
81320	Photographic film developer	21344	Physiologist
81320	Photographic plate maker	21313	Physiologist, animal
81320	Photographic print developer	21312	Physiologist, plant
81320	Photographic products machine operator	32551	Physiotherapist
21659	Photographic surveyor	26521	Pianist
35219	Photography, director of (motion picture)	75229	Piano case maker
73215	Photogravure cameraman	36204	Piano instructor (extracurriculum)
73217	Photogravure etcher	73120	Piano maker
73215	Photogravure photographer	73120	Piano stringer
73219	Photogravure proofer	73120	Piano tuner
73219	Photogravure prover	73120	Piano-accordion maker
73216	Photogravure retoucher	75190	Pickler, food
34310	Photo-journalist	83299	Pick-up driver
73215	Photolithographer	75223	Picture frame maker
73229	Photo-mechanical transferrer	26519	Picture restorer
73211	Photo-type-setting machine operator	75123	Pie maker
21319	Phycologist	73139	Piercer, precious metal
34223	Physical fitness instructor	61210	Pig farm worker
21462	Physical metallurgist	75111	Pig slaughterer
31193	Physical metallurgy technician	83424	Pile-driver operator
32551	Physical therapist	21424	Piling engineer
34229	Physical trainer	83424	Piling machine operator
22110	Physician (general practice)	31532	Pilot, aircraft (except commercial airline and air force)
22143	Physician, emergency	31531	Pilot, commercial airline
22149	Physician, industrial	31523	Pilot, harbour
22129	Physician, infectious diseases	31532	Pilot, helicopter (air transport)
22149	Physician, medical service (school)	31529	Pilot, hovercraft
22129	Physician, nuclear medicine	31532	Pilot, seaplane
22149	Physician, occupational	31523	Pilot, ship
22129	Physician, osteopathic	31532	Pilot, test (aircraft)
22147	Physician, public health	71242	Pipe and boiler insulator
22129	Physician, rehabilitation	81232	Pipe drawer (seamless)
22129	Physician, renal	71262	Pipe fitter (general)
22127	Physician, respiratory	71262	Pipe fitter, gas
22129	Physician, specialised	71262	Pipe fitter, marine
21110	Physicist (general)	71262	Pipe fitter, steam
21110	Physicist, acoustics	83426	Pipe jacking machine operator
21110	Physicist, electricity	71263	Pipe layer
21110	Physicist, electronics	71263	Pipe laying jointer
21110	Physicist, heat	71262	Pipe tube fitter, aircraft
21110	Physicist, light	81139	Pitman
21110	Physicist, magnetism	33461	Placement officer
21110	Physicist, mechanics	81254	Plane mill operator (metalworking)
21110	Physicist, optics	81254	Plane mill setter-operator
		81254	Planing machine operator (metalworking)
		81739	Planing machine operator (woodworking)

81254	Planing machine setter-operator (metalworking)	73219	Plate grainer (photo-engraving)
81739	Planing machine setter-operator (woodworking)	73219	Plate grainer (photogravure)
21641	Planner, town	73219	Plate maker (photogravure)
21649	Planner, traffic	81320	Plate maker, photographic
21641	Planner, urban	73219	Plate mounter
21610	Planner, urban design	73219	Plate mounter (photo-engraving)
21641	Planner, urban land	81215	Plate roller (steel)
43221	Planning clerk (materials supply)	81241	Plater (electroplating)
43222	Planning clerk (production)	72132	Plater, boilermaking
21329	Plant biotechnologist	81242	Plater, hot-dip
21329	Plant geneticist	72145	Plater, ship
21312	Plant histologist	81243	Plater, wire (machine)
72339	Plant maintenance mechanic	36100	Play school teacher
21323	Plant pathologist	34210	Player, football
21312	Plant physiologist	31719	Playground safety inspector
21312	Plant taxonomist	31719	Playground safety officer
31422	Plant tissue culture technician	26411	Playwright
21326	Plant tissue culturist	71261	Plumber (general)
21323	Plant virologist	71262	Plumber, ship
61900	Planter, tree (forestry)	81723	Plywood core layer
71230	Plasterer	81723	Plywood core-laying machine operator
71230	Plasterer, ornamental	75229	Plywood grader
71230	Plasterer, stucco	81724	Plywood press operator
73219	Plastic finisher (photo-engraving)	72149	Pneumatic riveter
81420	Plastic product making machine operator	83429	Pneumatic-drill operator
82199	Plastic products assembler	32593	Podiatrist
22137	Plastic surgeon	26411	Poet
21130	Plastics chemist	54121	Police constable
81420	Plastics compression moulding machine operator	54123	Police guard (private)
81420	Plastics extruding machine operator	33550	Police inspector
81420	Plastics gauge and jig maker	54121	Police patrolman
81420	Plastics injection moulding machine operator	34310	Police photographer
81420	Plastics laminating machine operator	54121	Policeman
81420	Plastics laminating press operator	54121	Policeman, harbour
81420	Plastics laminator	54121	Policeman, marine
81420	Plastics polisher	54121	Policeman, traffic
81420	Plastics product fabricator	24220	Policy analyst
72149	Plate bender	12130	Policy and planning manager
94104	Plate collector	43122	Policy clerk, insurance
73219	Plate finisher (photo-engraving)	12130	Policy planning manager
71250	Plate glass fitter	72249	Polisher (metalworking)
73159	Plate glass polisher	73132	Polisher and cutter diamond (industrial)
73159	Plate glass rollerman	73132	Polisher and cutter, gem
		73161	Polisher, acid (glass decorating)
		91220	Polisher, car
		72249	Polisher, emery (metalworking)
		71131	Polisher, granite
		71131	Polisher, marble

72249	Polisher, mirror-finish (metalworking)	81811	Pottery and porcelain kilnman
91220	Polisher, motor vehicle	73141	Pottery and porcelain modeller
81420	Polisher, plastics	73141	Pottery and porcelain mould maker
73159	Polisher, plate glass	73141	Pottery and porcelain presser
72249	Polisher, sand (metalworking)	73141	Pottery and porcelain thrower
75361	Polisher, shoe (shoemaking)	73149	Pottery and porcelain turner
71131	Polisher, stone	73162	Pottery artist
72241	Polishing machine operator (metalworking)	73149	Pottery driller
73155	Polishing machine operator, lens	73141	Pottery worker
26332	Political philosopher	61221	Poultry breeder
26332	Political scientist	75119	Poultry dresser
81420	Polyfoam product making machine operator	61221	Poultry farm worker (general)
21130	Polymers chemist	61221	Poultry farmer
23102	Polytechnic teacher	61222	Poultry hatcher and breeder
81420	Polythene bag making machine operator	61222	Poultry hatchery worker
71261	Pool and filtration system worker	61223	Poultry inseminator
26524	Popular music singer	75111	Poultry slaughterer
31574	Port and shipping operations supervisor	31423	Poultry technical officer
31592	Port captain	81219	Pourer, metal
31591	Port master, dry dock	21512	Power distribution and transmission engineer
13243	Port operations manager	31132	Power distribution technician (electricity)
31574	Port operations supervisor	81860	Power generating plant operator
96213	Porter (airport)	21512	Power generation engineer
96213	Porter, baggage (except hotel)	31132	Power generation technician (electricity)
96212	Porter, baggage (hotel)	81860	Power plant boilerman
96212	Porter, hall (hotel)	81852	Power plant operator (compressed air)
96212	Porter, hotel baggage	81860	Power plant operator, electricity generating
96213	Porter, railway	81860	Power plant operator, hydroelectric
93334	Porter, warehouse	81860	Power plant operator, steam
26512	Portrait painter	81860	Power reactor operator
34310	Portrait photographer	81259	Power shear operator
42112	Post office counter clerk	81860	Power switchboard operator
42112	Postal service counter clerk	31132	Power transmission technician (electricity)
13244	Postal service operations manager	22110	Practitioner, general
51601	Postal service supervisor	22110	Practitioner, medical (general)
83223	Postal van driver	62211	Prawn farm worker
34391	Poster artist	62211	Prawn farmer
51602	Postman	39910	Preacher (non-ordained)
13244	Postmaster	71149	Precast concrete erectors
73141	Potter (general)	73139	Precious metal cutter
81819	Potter's millman	73139	Precious metal driller
73141	Pottery and porcelain caster	73139	Precious metal leaf maker
73141	Pottery and porcelain die-presser	73139	Precious metal piercer
73141	Pottery and porcelain jiggerman		
73141	Pottery and porcelain jollier		

73139	Precious metal roller	91210	Presser, steam (laundry service)
73139	Precious metal spinner	81591	Pressing machine operator (laundry service)
81257	Precision grinding machine operator	81819	Pressing machine operator, glass
81257	Precision grinding machine setter-operator	81719	Pressman (hardboard)
31196	Precision optics technician	81841	Pressman, lithographic
81732	Precision wood sawyer	81841	Pressman, offset
71199	Prefabricated building section assembler	81652	Pressman, oil (edible oils)
71199	Prefabricated building section erector	81841	Pressman, printing
71199	Prefabricated building section fixer	81841	Pressman, wallpaper printing
12191	Premises and facilities maintenance manager	23300	Pre-university teacher
12191	Premises maintenance manager	33599	Price inspector
31601	Premises maintenance officer	29011	Priest
75390	Preparer, fibre	23400	Primary school teacher
75190	Preparer, tobacco	11110	Prime minister
36100	Pre-primary school teacher	83322	Prime mover driver
11110	President (government)	13459	Principal, kindergarten
11203	President, company	13451	Principal, school
81890	Press baling machine operator	81320	Print developer, photographic
26422	Press editor	73221	Printer, batik
33450	Press liaison officer	73221	Printer, block
81652	Press operator (edible oils)	81320	Printer, film
81651	Press operator (fruit juice extraction)	81320	Printer, photographic
81432	Press operator, cardboard	81320	Printer, projection (photography)
81625	Press operator, chocolate making	73221	Printer, silk screen
81819	Press operator, clay filtering	73221	Printer, textile
81431	Press operator, cutting and creasing (paper box)	81841	Printer, wallpaper
81259	Press operator, metal (except forging or plate bending)	44191	Printer's proof reader
81259	Press operator, metal bending	33399	Printing broker
81420	Press operator, plastics laminating	73219	Printing engraver (metal plate, roller and die)
81724	Press operator, plywood	73214	Printing engraver, photogravure
81419	Press operator, rubber embossing	73219	Printing etcher (metal plate or roller)
81419	Press operator, rubber moulding	73217	Printing etcher (photogravure)
81549	Press operator, steam (textile)	81841	Printing machine operator
81660	Press operator, sugar beet	81320	Printing machine operator, photograph
81549	Press operator, textile	72339	Printing machinery fitter
81419	Press operator, tyre moulding	72339	Printing machinery fitter- assembler
34310	Press photographer	72333	Printing machinery mechanic
72221	Press tool maker	73211	Printing maker-up
91210	Presser (laundry service)	73219	Printing plate retoucher
73141	Presser, pottery and porcelain	81841	Printing press feeder
		81841	Printing pressman
		81841	Printing pressman, wallpaper
		73219	Printing roller engraver
		73229	Printing transferrer, lithographic
		54130	Prison guard
		54130	Prison warden

26351	Prison welfare worker	25140	Programmer, applications
33493	Private banking operations executive	25123	Programmer, multimedia
54191	Private inquiry agent	25140	Programmer, systems
54191	Private investigator	25140	Programmer, technical
32202	Private nurse	13231	Project manager (construction)
54123	Private police guard	13301	Project manager, information technology
36910	Private tutor (academic)	81320	Projection printer (photography)
36910	Private tutor (pre-university education)	59001	Projectionist, cinema
44170	Probate clerk	52421	Promoter, sales
26120	Probate judge	44191	Proof reader
26352	Probation officer	73219	Proofer, photogravure
31144	Process instrumentation technician	73211	Proof-pressman
81871	Process pumper (petroleum refining)	33340	Property agent
51603	Process server	31601	Property management executive
33232	Procurement agent	12191	Property manager
21499	Procurement engineer	33340	Property salesman
13242	Procurement manager	26113	Prosecutor, public
26544	Producer of commercials	32141	Prosthetic technician
26541	Producer, computer games	32141	Prosthetist
61221	Producer, egg (farm)	73219	Prover, photo-engraving
26541	Producer, motion picture	73219	Prover, photogravure
26541	Producer, radio and television	92143	Pruner and trimmer, tree
26541	Producer, stage	22128	Psychiatrist
26541	Producer, theatrical	26340	Psychologist
24139	Product structurer, financial	26340	Psychologist, clinical
34399	Product stylist	26340	Psychologist, educational
35219	Production assistant	26340	Psychologist, forensic
43151	Production co-ordinator (computer operations)	26340	Psychologist, industrial
26543	Production designer (film)	26340	Psychologist, occupational
26543	Production designer (stage)	26340	Psychologist, research
26543	Production designer (studio)	26340	Psychologist, social
21412	Production engineer	24111	Public accountant
31006	Production engineer, assistant	59009	Public address equipment operator
31172	Production engineering technician	32201	Public health nurse
13231	Production manager (construction)	32522	Public health nutritionist
13101	Production manager (farm)	22147	Public health physician
13211	Production manager (manufacturing)	22500	Public health veterinarian
43222	Production planning clerk	33450	Public information officer
33499	Production/Materials planner	33450	Public liaison officer
32201	Professional nurse (general)	43142	Public opinion collector
34210	Professional sportsman	26113	Public prosecutor
52499	Programme salesman (theatre)	24320	Public relation consultant
25140	Programmer, analyst	41109	Public relations assistant
		41109	Public relations clerk
		12220	Public relations manager
		33450	Public relations officer
		33229	Publications sales representative
		33450	Publicity man
		12220	Publicity manager

81819 Pug mill operator, clay
 26120 Puisne judge
 81139 Puller, well (oil and gas wells)
 81139 Pulling machine operator (oil and gas wells)
 81660 Pulp press operator (sugar beet)
 81711 Pulp refiner operator (papermaking)
 81711 Pulping machine operator (wood pulp)
 81311 Pulveriser (chemical and related processes)
 81871 Pumper, process (petroleum refining)
 81853 Pumper, water
 81853 Pumphouse man
 81853 Pumping station operator
 81853 Pumpman (except petroleum refinery)
 81871 Pumpman (petroleum refining)
 81259 Punching press operator
 33231 Purchaser, merchandise (wholesale or retail trade)
 33232 Purchaser, technical
 33232 Purchasing agent
 43116 Purchasing clerk
 13242 Purchasing manager
 81854 Purifying plant operator (water works)

Q

21414 Quality assurance engineer
 13292 Quality assurance manager
 25151 Quality assurance specialist, information technology
 31175 Quality assurance technician
 82131 Quality checker, electrical products
 82131 Quality checker, electronic products
 82132 Quality checker, mechanical products
 21130 Quality control chemist
 21414 Quality control engineer
 82131 Quality control operator (electrical products)
 82131 Quality control operator (electronic products)
 82132 Quality control operator (mechanical products)
 31197 Quantity surveying technician

21494 Quantity surveyor
 81139 Quarryman (granite)
 81139 Quarryman (sand)
 83502 Quartermaster (ship)
 75349 Quilt maker

R

29011 Rabbi
 51944 Racehorse trainer
 21529 Radar engineer
 74221 Radar fitter
 74221 Radar mechanic
 31149 Radar technician
 22149 Radiation oncologist
 32112 Radiation therapist
 26541 Radio and television producer
 74212 Radio and television receiving set mechanic
 35214 Radio and television studio equipment operator
 31143 Radio and television technician
 35214 Radio and television transmitting equipment operator
 34411 Radio announcer
 26542 Radio director
 26545 Radio editor
 21524 Radio engineer
 31143 Radio engineering technician
 34411 Radio news reader
 35233 Radio officer, ship's
 35234 Radio operator, flight
 34411 Radio presenter
 26541 Radio producer
 82122 Radio receiver assembler
 74221 Radio transmitter fitter
 74221 Radio transmitter mechanic
 82122 Radio valve assembler
 26545 Radio, television and video editor
 32111 Radiographer, medical diagnostic
 32114 Radiography technician (medical)
 22142 Radiologist
 22142 Radiologist, diagnostic
 35232 Radio-telephone operator (land-based)
 51121 Rail station service assistant
 75342 Rail-carriage upholsterer
 93332 Railway and road vehicle loader
 83121 Railway brakeman

91293	Railway carriage cleaner	32560	Recreational therapist
21429	Railway construction engineer	81860	Rectifier operator (electric current)
51312	Railway dining car waiter	29011	Rector
83129	Railway engine driver	81512	Reeler (thread and yarn)
81829	Railway engine fireman	34224	Referee (sports)
83129	Railway gateman	81625	Refiner (chocolate making)
33311	Railway goods agent	31192	Refining and smelting technician
93332	Railway loader	81653	Refining machine operator (oils and fats)
96213	Railway porter	32542	Refracting optician
31579	Railway service supervisor	71244	Refractory worker
83121	Railway shunter	52492	Refreshments salesman (cinema or theatre)
83121	Railway signalman	81619	Refrigerating process worker (foodstuffs)
31599	Railway station master	71243	Refrigeration and air-conditioning equipment insulator
81829	Railway steam engine fireman	71272	Refrigeration and air-conditioning plant installer
31599	Railway superintendent (MRT)	21447	Refrigeration engineer
31579	Railway transport service inspector	31154	Refrigeration engineering technician
54199	Ranger, forest	71272	Refrigeration equipment erector
54194	Ranger, park	81855	Refrigeration system operator
75291	Rattan furniture maker	96111	Refuse collector
81315	Rayon spinner	81859	Refuse disposal furnaceman
81860	Reactor operator (nuclear power plant)	81859	Refuse disposal incinerator operator
96292	Reader, meter	96112	Refuse sorter
44191	Reader, printer's proof	83329	Refuse truck driver
44191	Reader, proof	13459	Registrar (institution of higher learning)
33340	Real estate agent	41102	Registry clerk
33340	Real estate salesman	73120	Regulator, tone (musical instrument)
33340	Realtor	22129	Rehabilitation physician
81255	Reamer operator (metalworking)	71141	Reinforced concreter (general)
81255	Reamer setter-operator (metalworking)	72142	Reinforcing iron worker
81419	Rebuilder, tyre	71149	Reinforcing wire mesh worker (concrete)
81419	Recapper, tyre	36991	Relief teacher
43219	Receiving and despatching clerk	43114	Remittance clerk
42241	Receptionist (general)	81419	Remoulder, tyre
42243	Receptionist, clinic	93339	Removal man
42243	Receptionist, dentist's	22129	Renal physician
42243	Receptionist, doctor's	13232	Renovation contractor (working proprietor)
42242	Receptionist, hotel	42149	Rent collector
42243	Receptionist, medical		
35219	Recording tester		
41103	Records clerk (personnel department)		
43211	Records clerk (stock control)		
40000	Records section supervisor (office)		
91139	Recreation centre cleaner		

71322	Repainter, motor vehicle body	24312	Researcher, market
72249	Repairer and sharpener, saw	26323	Researcher, social studies
72133	Repairer, auto-body	42210	Reservations clerk (travel agency)
72339	Repairer, bicycle	81859	Reservoir keeper
72311	Repairer, brake	31125	Resident technical officer
71331	Repairer, building	81311	Resin compounder (chemical and related processes)
73119	Repairer, camera	22127	Respiratory physician
73112	Repairer, clock and watch	51311	Restaurant captain
72339	Repairer, coin machine	52302	Restaurant cashier
73119	Repairer, dental instrument	51202	Restaurant cook
32143	Repairer, dental prosthesis	14123	Restaurant keeper (working proprietor)
72339	Repairer, dispensing machine	14121	Restaurant manager
74123	Repairer, electrical (household appliance)	14123	Restaurateur (working proprietor)
75390	Repairer, fabrics	26519	Restorer, painting
75363	Repairer, footwear	26519	Restorer, picture
74123	Repairer, household appliance (electrical)	96259	Rest-room attendant
73131	Repairer, jewellery	52202	Retail assistant
73113	Repairer, optical instrument	14203	Retail dealer (working proprietor)
32142	Repairer, orthopaedic appliance	14201	Retail manager
72339	Repairer, pedal-cycle	22621	Retail pharmacist
72249	Repairer, saw	14201	Retail trade manager
73119	Repairer, scientific, surgical or dental instrument	52202	Retail trade salesman
75363	Repairer, shoe	14203	Retailer (working proprietor)
72133	Repairer, vehicle body	81811	Retort kilnman (brick and tile)
72339	Repairer, vending machine	73216	Retoucher, photogravure
73120	Repairer, violin	73219	Retoucher, printing plate
73112	Repairer, watch and clock	71329	Retoucher-painter (manufacturing)
26421	Reporter	81419	Retreader, tyre
41202	Reporter, court	81215	Reversing mill roller (cold steel)
26421	Reporter, crime	81626	Revolving pan operator (sugar confectionery)
26421	Reporter, fashion	74129	Rheostat fitter
26421	Reporter, newspaper	22129	Rheumatologist
41202	Reporter, shorthand verbatim	61900	Rice farm worker
26421	Reporter, sports	61900	Rice farmer
41202	Reporter, verbatim	81630	Rice miller
33392	Representative, advertising	93310	Rider, bicycle or tricycle (not motorised)
11121	Representative, diplomatic (government)	72155	Rigger, aircraft
33223	Representative, medical sales	72159	Rigger, cable railway
33223	Representative, pharmaceutical	72153	Rigger, hoist (construction)
21212	Research analyst, operations	72151	Rigger, hoisting equipment (general)
26323	Research analyst, social	72156	Rigger, oil and gas well drilling
12230	Research and development manager	71191	Rigger, scaffolding
33492	Research officer (non-statistical)		
33142	Research officer (statistical)		
26340	Research psychologist		

72154	Rigger, ship	81215	Roller, continuous mill (steel)
72159	Rigger, ski-lift	81215	Roller, hot-rolling (steel)
24132	Risk analyst (financial)	81215	Roller, non-ferrous metals
24132	Risk management manager	81215	Roller, plate (steel)
24132	Risk manager (financial)	73139	Roller, precious metal
72149	Rivet catcher	81215	Roller, reversing mill (cold steel)
72149	Rivet heater	81215	Roller, seamless pipe and tube
81259	Rivet maker	81215	Roller, sheet (steel)
72149	Riveter	81215	Roller, slabbing mill
72149	Riveter, machine	81215	Roller, steel (cold)
72149	Riveter, pneumatic	81626	Roller, sugar confectionery
93332	Road and railway vehicle loader	81215	Roller, tandem mill (cold steel)
13232	Road building contractor (working proprietor)	81652	Rollerman (edible oil processing)
21429	Road construction engineer	81630	Rollerman (grain milling)
71000	Road construction supervisor and general foreman	81630	Rollerman (mustard milling)
81233	Road extruder operator	73159	Rollerman (plate glass)
83425	Road grader and scraper operator	81630	Rollerman (rice milling)
93100	Road maintenance labourer	81630	Rollerman (spice milling)
83425	Road making machine operator	81215	Rolling mill stands tender
31573	Road passenger transport service inspector	71210	Roofer, metal
83425	Road roller operator	71210	Roofer, slate and tile
83425	Road spreading plant operator	71210	Roofer, tile and slate
83425	Road surface laying machine operator	71250	Roofing glazier
31599	Road transport depot superintendent	91121	Room steward (hotel)
31573	Road transport service supervisor	72152	Rope and cable splicer (general)
93332	Road vehicle loader	81131	Rotary driller (oil and gas wells)
81312	Roaster (chemical and related processes)	81313	Rotary drum filterer
81312	Roaster, chemicals	81722	Rotary veneer machine operator
81678	Roasting machine operator, cocoa bean	81259	Router operator (metalworking)
81678	Roasting machine operator, coffee bean	81259	Router setter-operator (metalworking)
21449	Robotics engineer	43239	Routing clerk (freight)
31179	Robotics technician	75390	Rover, fibre
81149	Rock crusher operator	81890	Rubber baling press operator
81214	Rod casting machine operator, continuous (non-ferrous metal)	81419	Rubber calender operator
73159	Rod maker, glass	21130	Rubber chemist
75401	Rodent exterminator	81419	Rubber coating machine operator
93100	Rodman (surveying)	81419	Rubber compounder
83425	Roller driver (road construction)	81419	Rubber dipping machine operator
81629	Roller plant operator (dried milk)	81419	Rubber embossing machine operator
81215	Roller, bar mill	81419	Rubber extruding machine operator
81215	Roller, cold (steel)	61900	Rubber farmer
		82199	Rubber goods assembler
		81412	Rubber laminating machine operator
		81411	Rubber millman
		81411	Rubber mixing mill operator
		81419	Rubber moulding-press operator
		61900	Rubber plantation worker

61900 Rubber planter
 93209 Rubber sheets clipper and sorter
 75409 Rubber stamp maker
 61900 Rubber tapper
 75299 Rush matting maker

S

75369 Saddler
 41109 Safe deposit clerk
 21493 Safety engineer (industrial)
 81811 Saggur maker
 81699 Sago maker
 75390 Sail maker
 75390 Sail sewer
 83502 Sailor
 52492 Salad bar counter attendant
 43114 Salaries clerk
 52422 Sales canvasser
 43115 Sales clerk
 52421 Sales demonstrator
 33222 Sales engineer, computer
 33222 Sales engineer, technical
 12211 Sales manager
 33290 Sales organiser (regional or overseas)
 52421 Sales promoter
 33223 Sales representative (medical and pharmaceutical products)
 33222 Sales representative, computer
 33224 Sales representative, information and communications technology
 33211 Sales representative, insurance
 33229 Sales representative, manufacturer's
 52202 Sales representative, motor vehicle
 33223 Sales representative, pharmaceutical
 33229 Sales representative, publications
 33229 Sales representative, sports products
 33222 Sales representative, technical
 33222 Sales representative, technical equipment
 52201 Sales supervisor
 33392 Salesman (broadcasting time)
 33399 Salesman (leasing of vehicles)
 33392 Salesman, advertising
 33111 Salesman, bonds
 52422 Salesman, door-to-door
 33222 Salesman, engineering
 33211 Salesman, insurance
 52422 Salesman, outdoor
 52499 Salesman, programme (theatre)
 33340 Salesman, property
 33340 Salesman, real estate
 52492 Salesman, refreshments (cinema or theatre)
 52202 Salesman, retail trade
 33111 Salesman, securities
 33222 Salesman, technical
 52202 Salesman, wholesale trade
 33340 Salesperson, property
 33340 Salesperson, real estate
 54110 Salvageman (fire)
 29019 Salvationist
 75190 Samsu maker
 72249 Sand polisher (metalworking)
 75229 Sandals maker (wood)
 71332 Sandblaster (building exteriors)
 81249 Sandblaster (castings)
 73161 Sandblaster (glass decorating)
 81247 Sandblaster (metal)
 71131 Sandblaster (stone cutting)
 81739 Sanding machine operator (woodworking)
 81739 Sanding machine setter-operator (woodworking)
 71261 Sanitary and plumbing worker
 21432 Sanitary engineer
 32571 Sanitary inspector
 81660 Saturation attendant (sugar refining)
 81655 Sauce making machine operator
 96259 Sauna bath attendant
 81611 Sausage making machine operator
 72249 Saw repairer and sharpener
 81259 Sawing machine operator (metalworking)
 81259 Sawing machine setter-operator (metalworking)
 81721 Sawmill operator (band-saw)
 81721 Sawmill sawyer (general)
 81721 Sawyer
 81732 Sawyer, circular (precision)
 73132 Sawyer, diamond (industrial)

81732	Sawyer, frame precision (wood)	83502	Seaman, ordinary
81732	Sawyer, precision (wood)	81522	Seamless hosiery knitting machine operator
81721	Sawyer, sawmill (general)	81232	Seamless pipe and tube drawer
26521	Saxophonist	81215	Seamless pipe and tube roller
71191	Scaffolder	31532	Seaplane pilot
71191	Scaffolding rigger	75211	Seasoner (wood)
26419	Scenario writer	51390	Seater (catering service)
34324	Scenery designer	31512	Second engineer (ship)
71329	Scenery painter (stage set)	31522	Second mate (ship)
43221	Schedule clerk (material planning)	23300	Secondary school teacher
43222	Schedule clerk (production planning)	23200	Secretarial school teacher
43151	Scheduler (computer operations)	12112	Secretary, company (executive)
96259	School attendant	11121	Secretary, embassy (Singapore diplomatic officer)
13459	School cluster superintendent	34129	Secretary, organising (community centre)
26357	School counsellor	41201	Secretary, stenographic
32511	School dental nurse	33111	Securities broker
13451	School principal	43123	Securities clerk
13451	School vice principal	33111	Securities dealer
73151	Scientific glass blower	33111	Securities sales representative
73119	Scientific instrument maker and repairer	33111	Securities salesman
34310	Scientific photographer	41109	Security administrator
26332	Scientist, political	41109	Security administrator assistant
72249	Scissors sharpener (itinerant)	54140	Security guard (private)
83439	Scoop-truck operator	54140	Security officer
75390	Scourer, wool fibre	54140	Security patrolman
81890	Scrap baling press operator	54199	Security screening officer
83425	Scraper and grader operator (construction)	25240	Security specialist, information technology
71143	Screeder	81630	Seed dresser (mustard milling)
75299	Screen maker, bamboo	21142	Seismologist
81313	Screen operator (chemicals and related materials)	14123	Self-service restaurant keeper (working proprietor)
81660	Screen operator (sugar refining)	14201	Self-service store manager
73221	Screen stencil printer operator	52302	Seller, ticket (booking office)
81711	Screener operator (paper pulp)	82122	Semi-conductor device assembler
81630	Screenman (grain milling)	21523	Semi-conductor engineer
81259	Screw cutting machine operator (metalworking)	31142	Semi-conductor technician
81259	Screw cutting machine setter-operator (metalworking)	31155	Semiconductor tooling specialist
26415	Script editor	24111	Senior accountant, casino
26412	Script writer	33130	Senior accounting officer
34229	Scuba diving instructor	24111	Senior casino accountant
26511	Sculptor	11150	Senior official of employers' organisation
31560	Sea traffic controller	11160	Senior official of humanitarian organisation
13243	Sea traffic operations manager	11140	Senior official of political party organisation
83502	Seaman		
83502	Seaman, able		

11150	Senior official of workers' organisation	81259	Shearing machine setter-operator
81630	Separating machine operator (grain milling)	61210	Sheep shearer
81313	Separator operator, centrifugal	72139	Sheet metal marker
83509	Serang	81259	Sheet metal spinner
32120	Serology technician	72139	Sheet metal worker (copper)
96253	Servant, hospital	72131	Sheet metal worker (general)
51603	Server, notice	72139	Sheet metal worker (tin)
51603	Server, process	72139	Sheet metal worker, aircraft
51603	Server, summons	72139	Sheet metal worker, furniture
51121	Service assistant, rail station	72139	Sheet metal worker, ornamental
72321	Service mechanic (aircraft engine)	72133	Sheet metal worker, vehicle
52491	Service station attendant (automobiles)	81215	Sheet roller (steel)
34324	Set decorator (motion pictures)	93209	Sheet rubber maker
34324	Set designer	33312	Ship agent
71329	Set painter (motion picture)	72144	Ship beam and frame erector
81859	Sewage plant operator	33242	Ship broker
81842	Sewer, bookbinding (machine)	31521	Ship captain
75390	Sewer, fur	71151	Ship carpenter
81531	Sewer, hat and cap (machine)	31593	Ship charterer
75364	Sewer, leather	91291	Ship cleaner
75343	Sewer, mattress	21444	Ship construction engineer
75390	Sewer, sail	33464	Ship crewing officer
75361	Sewer, shoe	74110	Ship electrician
75390	Sewer, tent	31512	Ship engineer officer
21432	Sewerage engineer	72149	Ship frame bender and turner
81531	Sewing machine operator (general)	71321	Ship hull and structural steel painter
81842	Sewing machine operator, book	71152	Ship joiner
75361	Sewing machine operator, sole (shoemaking)	93331	Ship loader
81256	Shaping machine operator (metalworking)	81823	Ship motorman
81739	Shaping machine operator (woodworking)	31523	Ship pilot
81256	Shaping machine setter-operator (metalworking)	72145	Ship plater
81739	Shaping machine setter-operator (woodworking)	71262	Ship plumber
33111	Sharebroker	72154	Ship rigger
72249	Sharpener, cutting instrument	91291	Ship tank cleaner
72242	Sharpener, edge tool	72000	Ship-building and repairing supervisor and general foreman
72249	Sharpener, knife (itinerant)	31521	Shipmaster
72249	Sharpener, saw	33311	Shipping agent
72249	Sharpener, scissors (itinerant)	43231	Shipping clerk
61210	Shearer, sheep	43231	Shipping clerk (freight)
81259	Shearing machine operator (metal cutting)	31574	Shipping operations supervisor
		31511	Ship's chief engineer
		51111	Ship's chief steward
		51202	Ship's cook
		31512	Ship's engineer
		72339	Ship's engine-room mechanic
		81829	Ship's engine-room rating
		81822	Ship's fireman
		71329	Ship's interior painter
		31522	Ship's mate

31522	Ship's navigating officer	21519	Signal systems engineer (electrical)
81823	Ship's oiler and greaser	21529	Signal systems engineer (electronic)
35233	Ship's radio officer	31139	Signal systems technician (electrical)
51112	Ship's steward	31149	Signal systems technician (electronic)
81822	Ship's stocker	72153	Signaller and rigger (construction)
72144	Shipwright, metal	74129	Signalling equipment fitter (electrical)
71151	Shipwright, wood	74221	Signalling equipment fitter (electronic)
72000	Shipyards foreman	83121	Signalman, railway
13291	Shipyards manager	73221	Silk screen printer
75361	Shoe cutter	81630	Silksman (grain milling)
75361	Shoe finisher	73162	Silverer, glass
75361	Shoe pattern-maker	73162	Silverer, mirror
75361	Shoe polisher (shoemaking)	73133	Silversmith
75363	Shoe repairer	31429	Silvicultural technician
75361	Shoe sewer	21329	Silviculturist
75361	Shoemaker	X3000	Singapore Armed Forces
75362	Shoemaker (orthopaedic)	81549	Singeing machine operator
75361	Shoemaker, bespoke	26524	Singer
81139	Shooter (oil and gas wells)	26524	Singer, alto
52202	Shop assistant	26524	Singer, concert
52202	Shop sales assistant	26524	Singer, jazz
14201	Shop sales manager	26524	Singer, opera
14203	Shopkeeper	26524	Singer, popular music
71290	Shorer (construction)	36204	Singing instructor (extracurriculum)
41311	Shorthand typist (general)	36204	Singing teacher (private tuition)
41202	Shorthand verbatim reporter	22301	Sinseh
26411	Short-story writer	32201	Sister (nursing)
75409	Shot firer (mine and quarry)	81599	Sizer
81249	Shotblaster (castings)	81512	Skeiner (thread and yarn)
81247	Shotblaster (metal)	72159	Ski-lift rigger
71131	Shotblaster (stone cutting)	31529	Skipper, yacht
93100	Shovelman	81215	Slabbing mill roller
52201	Showroom supervisor (retail trade)	71210	Slate and tile roofer
52201	Showroom supervisor (wholesale trade)	75111	Slaughterer
81311	Shredder operator (chemical and related processes)	75111	Slaughterer, pig
81543	Shrinker, cloth	75111	Slaughterer, poultry
81543	Shrinker, textile	73153	Slicer, optical glass
83121	Shunter, railway	51492	Slimming consultant
83121	Shunter, train	73153	Slitter, optical glass
83129	Shunting engine driver	41109	Slot administrative assistant
71142	Shutterer, concrete	35290	Slots technician
81660	Sieve operator, sugar	81811	Smelter, glass making
51131	Sightseeing guide		
39102	Sign language interpreter		
71323	Sign painter		
74129	Signage installer (electronic)		
71290	Signage installer (non-electronic)		

93209	Smokehouse attendant	51201	Sous chef
93209	Smokehouse labourer (rubber)	34210	Sparring partner (boxing)
75119	Smokehouseman (fish and meat)	34210	Sparring partner (others)
75119	Smoker, fish	33219	Special agent (group insurance systems)
75119	Smoker, meat	22612	Specialised dentist
75229	Smoking pipe maker	22129	Specialised physician
14123	Snack-bar keeper (working proprietor)	22139	Specialised surgeon
81332	Soap making machine operator	23511	Specialist, educational assessment
33592	Social benefits officer	31711	Specialist, fire prevention
51991	Social escort	54110	Specialist, fire salvage
26321	Social pathologist	23512	Specialist, teaching aid
26340	Social psychologist	23512	Specialist, visual teaching aid
26323	Social research analyst	51202	Specialty cook
26323	Social studies researcher	36206	Speech instructor (extracurriculum)
26351	Social welfare caseworker	32532	Speech pathologist
13440	Social welfare manager	36206	Speech teacher (private tuition)
26351	Social welfare worker	32532	Speech therapist
26351	Social worker (general)	81630	Spice miller
26352	Social worker, delinquency prevention	81630	Spice milling machine operator
26353	Social worker, medical	81259	Spinner, metal
26321	Sociologist	81315	Spinner, nylon
81522	Sock knitting machine operator	73139	Spinner, precious metal
75349	Soft furnishings maker	81315	Spinner, rayon
13302	Software and applications manager	81259	Spinner, sheet metal
25121	Software developer	81315	Spinner, synthetic fibre
25121	Software engineer	81511	Spinner, thread and yarn
21312	Soil botanist	81511	Spinning frame operator (thread and yarn)
21424	Soil mechanics engineer	81259	Spinning-lathe operator (metalworking)
21324	Soil scientist	72152	Splicer, rope and cable (general)
72121	Solderer	81512	Spooler (thread and yarn)
75361	Sole fitter	33399	Sports agent
75361	Sole sewing machine operator	34412	Sports announcer (television)
26111	Solicitor	14310	Sports centre manager
44170	Solicitor's clerk	34221	Sports coach
32113	Sonographer	91139	Sports complex cleaner
26524	Soprano	32521	Sports dietitian
96299	Sorter, bottle (hand)	26422	Sports editor
59009	Sound amplifying equipment operator (public address)	75229	Sports equipment maker (wood)
35219	Sound editor (motion picture film)	33320	Sports event organiser
35219	Sound mixer	33320	Sports event planner
21110	Sound physicist	92149	Sports grounds keeper
71249	Sound proofing insulator	34221	Sports instructor
35215	Sound recording equipment operator	26113	Sports legal officer
74212	Sound reproducing and recording equipment mechanic	32552	Sports masseur
73120	Sound-board maker (piano)	34224	Sports official
		34310	Sports photographer

22149	Sports physician	52120	Stall holder (prepared food or drinks)
32551	Sports physiotherapist	52190	Stall sales worker
34411	Sports presenter (radio)	75409	Stamp maker (rubber)
34412	Sports presenter (television)	81259	Stamping press operator
33229	Sports products sales representative	81849	Stapling machine operator
26340	Sports psychologist	34224	Starter (sports)
26421	Sports reporter	42149	Station assistant, MRT (fare collection)
32551	Sports trainer	31599	Station master, bus
35212	Sports video camera operator	31599	Station master, MRT
32522	Sports, nutritionist	31599	Station master, railway
34210	Sportsman, professional	81851	Stationary engine operator (general)
81312	Spray drier operator (chemical and related processes)	83431	Stationary jib-crane operator
71311	Spray painter (building)	81000	Stationary machine supervisor and general foreman
73162	Spray painter (ceramics)	43141	Statistical assistant (general)
71324	Spray painter (except ships, motor vehicles and signs)	43141	Statistical clerk (general)
71329	Spray painter (motor vehicle assembly)	43149	Statistical coder
71322	Spray painter (motor vehicle)	33141	Statistical officer
73162	Spray painting decorator (ceramics)	33149	Statistical technician
81629	Spray plant operator (dried milk)	21220	Statistician
81245	Sprayer, metal	21220	Statistician, applied statistics
83425	Spreader operator (concrete paving)	21220	Statistician, economics
81259	Spring maker	21220	Statistician, education
72111	Squeeze machine moulder	21220	Statistician, finance
61210	Stable hand	21220	Statistician, health
41103	Staff records clerk	21220	Statistician, survey
33463	Staff training organiser	81821	Steam boiler fireman
71151	Stage and studio carpenter	81549	Steam press operator (textile)
74110	Stage and studio electrician	91210	Steam presser (laundry service)
34412	Stage compere	83425	Steam-roller driver
26542	Stage director	72142	Steel bender and fixer (reinforced concrete)
26549	Stage manager	72143	Steel erector, constructional
26541	Stage producer	72142	Steel reinforcement worker
71329	Stage scenery painter	81215	Steel roller (cold)
34324	Stage set designer	72141	Steel worker, structural (workshop)
34399	Stage technician	81671	Steeper (malting)
75222	Stainer (wooden furniture finishing)	71199	Steeplejack
75390	Stainer, leather	75190	Stemmer, tobacco
94102	Stall assistant (coffee shop)	73229	Stencil plate maker (printing)
94102	Stall assistant (prepared food or drinks)	41311	Stenographer
52110	Stall holder (excluding prepared food or drinks)	41201	Stenographic secretary
		41311	Stenographic-typist (general)
		73212	Stereotype caster
		73212	Stereotype moulder
		73212	Stereotyper

93331	Stevedore	96130	Street cleaner and sweeper (except driver, mechanical sweeper)
34224	Steward (race track)	96130	Street sweeper and cleaner (except driver, mechanical sweeper)
51112	Steward, aircraft	52110	Street vendor (excluding prepared food or drinks)
51502	Steward, chief (hotel)	52120	Street vendor (prepared food or drinks)
51111	Steward, chief (ship)	83425	Strike-off machine operator (concrete paving)
51312	Steward, dining salon (ship)	73120	Stringed instrument maker
51112	Steward, flight	73120	Stringer, piano
51502	Steward, hotel	81599	Stripper, bobbin
51502	Steward, house	75119	Stripper, gut
51312	Steward, mess	75190	Stripper, tobacco
91121	Steward, room (hotel)	72111	Stripping-plate machine moulder
51112	Steward, ship's	21423	Structural engineer (buildings)
51312	Steward, wine	21422	Structural engineer (general)
81314	Still operator (chemical processes, except petroleum)	31001	Structural engineer, assistant
81871	Still pump operator (petroleum refining)	31184	Structural engineering draughtsman
81871	Stillman (petroleum refining)	31184	Structural engineering draughtsperson
81314	Stillman, alcohol	31122	Structural engineering technician (general)
33111	Stock and shares broker	71250	Structural glazier
43211	Stock control clerk	72149	Structural metal marker
33119	Stock jobber	71321	Structural steel and ship painter
43211	Stock records clerk	72143	Structural steel erector
33111	Stockbroker	72141	Structural steel worker (workshop)
81822	Stocker, ship's	24139	Structurer, financial product
81522	Stocking knitting machine operator	71230	Stucco mason
61210	Stockman (livestock worker)	71230	Stucco plasterer
71131	Stone carver	26359	Student vocational counsellor
71131	Stone cutter and finisher	71151	Studio and stage carpenter
71131	Stone driller	74110	Studio and stage electrician
71131	Stone grader	35214	Studio equipment operator, radio and television broadcasting (except sound recording)
71131	Stone grinder	93100	Stump grubber
71131	Stone polisher	34399	Stylist, fashion
83429	Stone spreader operator (construction)	34399	Stylist, product
71132	Stonemason (construction)	26422	Sub-editor, newspaper
52302	Store cashier	26422	Sub-editor, periodical
54191	Store detective	81660	Sugar beet press operator
43212	Storekeeper	81626	Sugar confectionery mixer
43212	Storeroom clerk	81626	Sugar confectionery roller
43219	Stores assistant		
43212	Stores clerk		
13241	Stores department manager (manufacturing company)		
40000	Stores supervisor		
12130	Strategic planning manager		
75299	Straw hat maker		
75299	Straw weaver		
81432	Strawmaker, paper		

81660	Sugar crystalliser operator	74000	Supervisor and general foreman (electrical and electronic installation and repair)
81660	Sugar grinder	82000	Supervisor and general foreman (electrical equipment manufacturing and repairing)
81660	Sugar processing and refining machine operator	81000	Supervisor and general foreman (electricity generation and distribution)
81660	Sugar processing equipment operator (continuous refining)	82000	Supervisor and general foreman (electronic equipment manufacturing and repairing)
81660	Sugar sieve operator	81000	Supervisor and general foreman (food manufacturing)
81660	Sulphitation man (sugar refining)	75000	Supervisor and general foreman (furniture and related products manufacturing)
81314	Sulphuric acid plant operator	81000	Supervisor and general foreman (gas production and distribution)
51603	Summons server	73000	Supervisor and general foreman (glass products manufacturing)
81712	Supercalender operator	73000	Supervisor and general foreman (jewellery manufacturing)
13244	Superintendent (postal service)	75000	Supervisor and general foreman (leather goods making)
31599	Superintendent, barge	74000	Supervisor and general foreman (M&E)
31599	Superintendent, ferry	72000	Supervisor and general foreman (metal and machinery trades)
31524	Superintendent, marine (deck)	81000	Supervisor and general foreman (metal processing)
31513	Superintendent, marine (engineer)	81000	Supervisor and general foreman (metal smelting, converting and refining)
31513	Superintendent, marine (technical)	72000	Supervisor and general foreman (non-electrical/non-electronic machinery manufacturing and repair)
31599	Superintendent, railway (MRT)	81000	Supervisor and general foreman (paper products manufacturing)
31599	Superintendent, railway depot	81000	Supervisor and general foreman (papermaking)
31599	Superintendent, road transport depot	81000	Supervisor and general foreman (petroleum refining)
13459	Superintendent, school cluster	81000	Supervisor and general foreman (plastic products manufacturing)
31574	Superintendent, ship's cargo	71000	Supervisor and general foreman (plumbing installation and repair)
31599	Superintendent, terminal (water transport)	73000	Supervisor and general foreman (pottery and bricks manufacturing)
31599	Superintendent, wharf		
14201	Supermarket manager		
61900	Supervisor (mixed farming)		
71000	Supervisor and general foreman (architectural)		
82000	Supervisor and general foreman (assembly and quality check)		
81000	Supervisor and general foreman (beverage making)		
71000	Supervisor and general foreman (building trades)		
71000	Supervisor and general foreman (building)		
73000	Supervisor and general foreman (ceramics manufacturing)		
81000	Supervisor and general foreman (chemical processing)		
81000	Supervisor and general foreman (chemical products manufacturing)		
81000	Supervisor and general foreman (clothing manufacturing)		
71000	Supervisor and general foreman (construction)		

73000	Supervisor and general foreman (precision instrument manufacturing)	51501	Supervisor, housekeeping (except private service)
81000	Supervisor and general foreman (prefabrication components manufacturing)	40000	Supervisor, invoice section
81000	Supervisor and general foreman (printing)	51601	Supervisor, mail
81000	Supervisor and general foreman (rubber products manufacturing)	51601	Supervisor, mail depot
72000	Supervisor and general foreman (ship building and repairing)	40000	Supervisor, market research
75000	Supervisor and general foreman (shoemaking)	31599	Supervisor, MRT (station master)
81000	Supervisor and general foreman (synthetic material products manufacturing)	31572	Supervisor, MRT service
81000	Supervisor and general foreman (textile fibre processing and textile manufacturing)	61112	Supervisor, mushroom farm
75000	Supervisor and general foreman (tobacco products manufacturing)	40000	Supervisor, office (general)
81000	Supervisor and general foreman (water supply)	61900	Supervisor, orchard
81000	Supervisor and general foreman (well drilling)	31574	Supervisor, port and shipping operations
81000	Supervisor and general foreman (wood processing)	31574	Supervisor, port operations
81000	Supervisor and general foreman (wood products making)	51601	Supervisor, postal service
40000	Supervisor, accounts section	31579	Supervisor, railway service
31571	Supervisor, air transport service	40000	Supervisor, records section (office)
51509	Supervisor, camp	31573	Supervisor, road transport service
31579	Supervisor, car park	52201	Supervisor, sales
91000	Supervisor, cleaning	31574	Supervisor, shipping operations
40000	Supervisor, clerical (general)	52201	Supervisor, showroom (retail trade)
40000	Supervisor, cost section	52201	Supervisor, showroom (wholesale trade)
51601	Supervisor, courier service	40000	Supervisor, stores
51503	Supervisor, dormitory	35231	Supervisor, telecommunications service
35110	Supervisor, electronic data processing	31571	Supervisor, traffic (airline)
61210	Supervisor, farm (livestock)	31574	Supervisor, traffic (ship's cargo)
61112	Supervisor, farm (mushrooms)	40000	Supervisor, wages section
61210	Supervisor, farm (pigs)	74000	Supervisors and general foreman (electrical and electronic trades)
61229	Supervisor, farm (poultry)	13242	Supplies manager
40000	Supervisor, field (market research)	24212	Supply chain consultant
40000	Supervisor, field (statistical)	43212	Supply clerk
52201	Supervisor, floor (retail trade)	33232	Supply requirements buyer
54199	Supervisor, forest	26120	Supreme court judge
40000	Supervisor, general office	22132	Surgeon, cardiothoracic
		22148	Surgeon, ear, nose throat (ENT)
		22131	Surgeon, general
		22133	Surgeon, hand
		22612	Surgeon, oral
		22135	Surgeon, orthopaedic
		22136	Surgeon, paediatric
		22137	Surgeon, plastic
		22139	Surgeon, specialised
		22132	Surgeon, thoracic
		22500	Surgeon, veterinary
		32142	Surgical appliance maker

75362 Surgical boot and shoe maker
 73119 Surgical instrument maker and
 repairer
 22146 Surgical pathologist
 41109 Surveillance administrative
 assistant
 43142 Survey interviewer (statistical)
 21220 Survey statistician
 21651 Surveyor (general)
 31158 Surveyor, airworthiness
 21652 Surveyor, cadastral
 21142 Surveyor, geodesist
 21652 Surveyor, geodetic
 21653 Surveyor, hydrographic
 21652 Surveyor, land
 21653 Surveyor, marine
 31157 Surveyor, marine (ship and
 nautical)
 21659 Surveyor, photographic
 21494 Surveyor, quantity
 21652 Surveyor, topographical
 31124 Surveyor's technician
 71241 Suspended ceiling installer
 91132 Sweeper, factory
 96130 Sweeper, park
 96130 Sweeper, street (except driver,
 mechanical sweeper)
 81313 Sweetland filter operator
 81626 Sweets making machine operator
 96259 Swimming pool attendant
 83431 Swing-bridge operator
 83121 Switch tender (railway yard)
 81860 Switchboard operator, electricity
 generating
 42230 Switchboard operator, telephone
 (private exchange)
 42230 Switchboard operator, telephone
 (telephone exchange)
 74129 Switchgear fitter (electrical)
 81315 Synthetic fibre maker
 81676 Syrup making machine operator
 25111 Systems analyst
 25111 Systems designer (computer)
 21522 Systems engineer (computer)
 25140 Systems programmer

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91129 Table clearer (catering service)
 81331 Tablet coater
 81331 Tableting machine operator
 83502 Taikong
 75310 Tailor (made-to-measure
 garment)
 75310 Tailor (ready-to-wear garment)
 75390 Tailor fur
 75321 Tailor's cutter
 43219 Tally clerk
 34429 Tamer, lion
 83429 Tamping machine operator
 (construction)
 81215 Tandem mill roller (cold steel)
 83329 Tanker driver
 75212 Tankman (wood treating)
 75390 Tanner, leather
 72221 Tap and die maker
 81699 Tapioca miller
 81219 Tapper, furnace (metal melting)
 81211 Tapper, furnace (ore smelting
 and refining)
 61900 Tapper, rubber
 61900 Tapper, toddy
 61900 Tapper, tree (rubber)
 83425 Tar spreading machine operator
 75151 Taster, coffee and tea
 34392 Tattooist
 43119 Tax clerk
 33591 Tax officer
 33591 Taxation inspector
 83221 Taxi driver
 34332 Taxidermist
 21313 Taxonomist, animal
 21312 Taxonomist, plant
 81677 Tea blender
 81677 Tea blending machine operator
 75151 Tea taster
 23521 Teacher of the blind
 23522 Teacher of the deaf
 23523 Teacher of the mentally
 handicapped
 23529 Teacher of the mute
 23529 Teacher of the physically
 handicapped
 36202 Teacher, art (private tuition)
 36202 Teacher, calligraphy
 36100 Teacher, child care

23109	Teacher, commercial school	26414	Technical writer
36203	Teacher, computer (computer training school)	31152	Technician, aeronautical engineering
36205	Teacher, dancing (private tuition)	31152	Technician, aeronautics engineering
36206	Teacher, drama (private tuition)	31152	Technician, aerospace component repair
36202	Teacher, dress making (other than vocational school)	31199	Technician, agricultural engineering
36202	Teacher, flower arrangement	31429	Technician, agronomy
34221	Teacher, golf	31154	Technician, air-conditioning engineering
23300	Teacher, junior college	31429	Technician, artificial insemination
36100	Teacher, kindergarten	31143	Technician, audio and video equipment
36201	Teacher, language (language school)	32119	Technician, audiometric
36201	Teacher, language school	31174	Technician, automation
36204	Teacher, music (private tuition)	31153	Technician, automotive engineering
36100	Teacher, nursery school	31411	Technician, bacteriology
36100	Teacher, play school	31411	Technician, biochemistry
23102	Teacher, polytechnic	31411	Technician, biological
36100	Teacher, pre-primary school	31411	Technician, biotech laboratory
23300	Teacher, pre-university	32120	Technician, blood bank
23400	Teacher, primary school	35211	Technician, broadcasting operations
36991	Teacher, relief	1123	Technician, building
23300	Teacher, secondary school	31161	Technician, chemical engineering (general)
23200	Teacher, secretarial school	31163	Technician, chemical engineering (petrochemicals)
36204	Teacher, singing (private tuition)	31162	Technician, chemical engineering (petroleum)
36206	Teacher, speech (private tuition)	31111	Technician, chemistry
23300	Teacher, technical education (secondary school)	31121	Technician, civil engineering (general)
23200	Teacher, technical school	31199	Technician, coal mining
23101	Teacher, university	35120	Technician, computer
23200	Teacher, vocational school	35120	Technician, computer systems
36209	Teacher, youth leadership	31423	Technician, dairy
53120	Teachers' aide	32143	Technician, dental
23512	Teaching aid specialist	31131	Technician, electrical engineering (general)
23511	Teaching methods adviser	31132	Technician, electrical engineering (high voltage)
26414	Technical copywriter	32119	Technician, electrocardiograph
23300	Technical education teacher (secondary school)	32119	Technician, electroencephalograph
33222	Technical equipment sales representative	31195	Technician, electronic pre-press
33222	Technical equipment salesman	31141	Technician, electronics engineering (general)
31189	Technical illustrator		
26229	Technical information archivist		
13291	Technical manager		
25140	Technical programmer		
33232	Technical purchaser		
33222	Technical sales co-ordinator		
33222	Technical sales engineer		
33222	Technical sales representative		
33222	Technical salesman		
23200	Technical school teacher		

31199	Technician, extractive metallurgy	32141	Technician, orthopaedic
31421	Technician, farm (horticulture)	32141	Technician, orthotic
31412	Technician, food	32120	Technician, pathology
31412	Technician, food processing	31163	Technician, petrochemicals (chemical engineering)
31412	Technician, food production	31194	Technician, petroleum and natural gas extraction
31412	Technician, food science	31162	Technician, petroleum refining
31199	Technician, forensic science	32130	Technician, pharmaceutical
31429	Technician, forestry	31419	Technician, pharmacology
31193	Technician, foundry	31193	Technician, physical metallurgy
34332	Technician, gallery	31112	Technician, physics
31194	Technician, gas engineering (well drilling)	31422	Technician, plant tissue culture
31194	Technician, gas production and distribution	31132	Technician, power distribution (electricity)
31119	Technician, geology	31132	Technician, power generation and transmission
32120	Technician, haematology	31196	Technician, precision optics
31419	Technician, herbarium	31144	Technician, process instrumentation
31421	Technician, horticultural	31172	Technician, production engineering
31144	Technician, instrumentation	32141	Technician, prosthetic
31411	Technician, laboratory (biology)	31175	Technician, quality assurance
31111	Technician, laboratory (chemistry)	31197	Technician, quantity surveying
31112	Technician, laboratory (physics)	31149	Technician, radar
31124	Technician, land surveying	31143	Technician, radio and television
34331	Technician, library	31143	Technician, radio engineering
34399	Technician, lighting	32114	Technician, radiography (medical)
31159	Technician, lubrication engineering	31192	Technician, refining and smelting
31171	Technician, manufacturing engineering (general)	31154	Technician, refrigeration engineering
31159	Technician, marine engineering	31179	Technician, robotics
33149	Technician, mathematical	31142	Technician, semi-conductor
31151	Technician, mechanical engineering (general)	32120	Technician, serology
31159	Technician, mechanical engineering (motors and engines)	31139	Technician, signal systems (electrical)
31191	Technician, mechatronics	31149	Technician, signal systems (electronic)
32120	Technician, medical laboratory	31429	Technician, silvicultural
32114	Technician, medical x-ray	34399	Technician, stage
31199	Technician, metal mining	33149	Technician, statistical
31199	Technician, metallurgical (extractive)	31122	Technician, structural engineering (general)
31193	Technician, metallurgical (physical)	31124	Technician, surveyor's
31119	Technician, meteorological	35220	Technician, telecommunications
31199	Technician, mining	31143	Technician, television engineering
31199	Technician, mining engineering	31179	Technician, time study
31179	Technician, motion study		
34332	Technician, museum		
31194	Technician, oil and gas well drilling		

31411	Technician, tissue culture (non-plant)	42230	Telephone switchboard operator (telephone exchange)
31422	Technician, tissue culture (plant)	42230	Telephonist
31154	Technician, ventilation engineering	41319	Teleprinter operator
32400	Technician, veterinary	83490	Telescopic handler operator
31143	Technician, video equipment	41319	Teletypist
31179	Technician, work study	74212	Television and radio receiving set mechanic
31419	Technician, zoology	35214	Television and radio studio equipment operator
21496	Technologist, brewery	35214	Television and radio transmitting equipment operator
21495	Technologist, ceramics	34412	Television announcer
21496	Technologist, food and drink	35213	Television camera operator
21495	Technologist, glass	34412	Television compere
35214	Telecine operator (television broadcasting)	26542	Television director
74224	Telecommunications and telephone installer	26545	Television editor
74223	Telecommunications and telephone lineman	21524	Television engineer
74224	Telecommunications and telephone mechanic	31143	Television engineering technician
21530	Telecommunications engineer	34412	Television news reader
21530	Telecommunications network professional	34412	Television presenter
13303	Telecommunications operations manager	26541	Television producer
35231	Telecommunications service supervisor	82122	Television receiver assembler
35220	Telecommunications technician	74221	Television transmitter fitter
74224	Telegraph installer	74221	Television transmitter mechanic
35239	Telegrapher	26545	Television, radio and video editor
74224	Telegraphic mechanic	42111	Teller, bank
41319	Telegraphic typewriter operator	42111	Teller, vault
52440	Telemarketer	81220	Temperer, metal
74224	Telephone and telecommunications installer	81811	Tempering furnaceman, glass
74223	Telephone and telecommunications lineman	72229	Template maker
74224	Telephone and telecommunications mechanic	81312	Tender, char-kiln (chemical and related processes)
74223	Telephone and telegraph cable jointer	81312	Tender, oven (paint drying)
74223	Telephone and telegraph cableman	81215	Tender, rolling mill stands
21530	Telephone engineer	83121	Tender, switch (railway yard)
42230	Telephone operator (private exchange)	34210	Tennis player
42230	Telephone operator (telephone exchange)	26524	Tenor
42230	Telephone switchboard operator (private exchange)	93100	Tent erector
		75390	Tent maker
		75390	Tent sewer
		31599	Terminal superintendent (water transport)
		81143	Terrazzo tile making machine operator
		31532	Test pilot (aircraft)
		82131	Tester (electrical equipment)
		82131	Tester (electronic equipment)
		81872	Tester, cylinder (compressed and liquefied gases)
		51950	Tester, driving

82131	Tester, electrical products	31512	Third engineer (ship)
82131	Tester, electronic products	22132	Thoracic surgeon
82132	Tester, mechanical products	75390	Thread cutter
35219	Tester, recording	81512	Thread doubler
25151	Testing specialist, information technology	81511	Thread spinner
81541	Textile bleacher	81512	Thread twister
81549	Textile calender operator	81512	Thread winder
72249	Textile card grinder	83490	Threshing machine operator
34352	Textile designer	73141	Thrower, pottery and porcelain
81549	Textile drier	52302	Ticket clerk (booking office)
75390	Textile fibre clarifier	96259	Ticket collector
81542	Textile fibre dyer	51122	Ticket inspector
72339	Textile machinery fitter	52302	Ticket seller (booking office)
72339	Textile machinery fitter-assembler	42210	Ticketing clerk (travel agency)
72333	Textile machinery mechanic	42210	Ticketing officer (travel agency)
81549	Textile press operator	34429	Tight-rope walker
73221	Textile printer	81811	Tile and brick kilnman
81543	Textile shrinker	73142	Tile and brick moulder
81543	Textile washer	71210	Tile and slate roofer
81543	Textile washer and shrinker	71220	Tile layer (composition tiles)
81543	Textile washing machine operator	71220	Tile setter
81541	Textile-bleaching machine operator	71220	Tiler, floor
21130	Textiles chemist	71220	Tiler, wall
81543	Textile-shrinking machine operator	61900	Timber cutter (forestry)
71210	Thatcher	71220	Timber flooring worker
71151	Theatre carpenter	93100	Timberman (construction)
74110	Theatre electrician	51129	Time keeper (transport)
14330	Theatre manager	31179	Time study technician
33399	Theatrical agent	42149	Timekeeper (except transport)
26542	Theatrical director	81242	Tin dipper
26541	Theatrical producer	72139	Tinsmith
51133	Theme park guide	31411	Tissue culture technician (non-plant)
14322	Theme park manager	31422	Tissue culture technician (plant)
29019	Theologian	21326	Tissue culturist, plant
32521	Therapeutic dietitian	75190	Tobacco blender
32560	Therapist for orientation of the blind	75190	Tobacco cake maker
32512	Therapist, dental health	75190	Tobacco flavourer
32532	Therapist, language	75190	Tobacco grader
32112	Therapist, medical radiation	75190	Tobacco mixer
32560	Therapist, occupational	75190	Tobacco paste maker
32512	Therapist, oral health	75190	Tobacco plug maker
32551	Therapist, physical	75190	Tobacco preparer
32112	Therapist, radiation	75190	Tobacco stemmer
32560	Therapist, recreational	75190	Tobacco stripper
32532	Therapist, speech	81432	Toilet paper roller machine operator
21110	Thermodynamicist	81339	Toiletry products machine operator
		42149	Toll collector

73120	Tone regulator (musical instrument)	74110	Train electrician
72221	Tool and die maker	83121	Train shunter
31156	Tool designer	51945	Trainer (obedience school)
72249	Tool grinder (except machine-tool)	51942	Trainer (zoo)
72242	Tool grinder (machine-tool)	51943	Trainer in crocodile farm
31155	Tooling technician	51942	Trainer, animal (zoo)
21442	Tools and industrial machinery engineer	51942	Trainer, bird
72211	Toolsmith	51945	Trainer, dog
31189	Topographical draughtsman	51942	Trainer, elephant
31189	Topographical draughtsperson	51945	Trainer, greyhound
21652	Topographical surveyor	51944	Trainer, horse
51131	Tour leader	34229	Trainer, physical
51131	Tourist guide	51944	Trainer, race horse
83431	Tower crane operator	34429	Trainer, wild animal (circus)
21641	Town planner	51942	Trainer, wild animal (zoo)
21341	Toxicologist	33463	Training executive
21130	Toxicologist, food	12123	Training manager
82191	Toy assembler	33463	Training officer
82191	Toymaker (general)	83312	Tram driver
82191	Toymaker (metal)	73229	Transferrer, direct lithographic
82191	Toymaker (stuff toys)	73229	Transferrer, lithographic
82191	Toymaker (wood)	73229	Transferrer, photo-mechanical
21519	Traction engineer (electric power)	74129	Transformer, fitter
83431	Tractor crane operator	39101	Translator
72311	Tractor mechanic	21512	Transmission engineer (electric power)
33241	Trade broker	72311	Transmission mechanic (motor vehicle)
33493	Trade finance executive	13243	Transport operations manager
33241	Trader, bunker	31573	Transport service inspector (buses and trams)
33114	Trader, commodities (financial)	31579	Transport service inspector, railway
33113	Trader, futures	34424	Trapeze artiste
33241	Trader, oil	42210	Travel agency clerk
43149	Traffic clerk	51131	Travel and tourist guide
43239	Traffic clerk (freight)	42210	Travel officer
31540	Traffic controller, air	42210	Travel reservations clerk
31560	Traffic controller, sea	42210	Travel service clerk
13243	Traffic department manager	33229	Traveller, commercial
21649	Traffic engineer	62220	Trawler crewman
31573	Traffic inspector (passenger road transport service)	81419	Tread cutter (tyre making)
31579	Traffic inspector (railway)	24134	Treasury manager
31597	Traffic officer, MRT	33225	Treasury sales executive
21649	Traffic planner	81871	Treater (petroleum refining)
54121	Traffic policeman	81871	Treater, desulphurisation (petroleum refining)
31571	Traffic supervisor (airline)	92143	Tree cutter
31574	Traffic supervisor (ship's cargo)	61900	Tree feller (logging)
83322	Trailer truck driver	61900	Tree planter (forestry)
83121	Train brakeman	92143	Tree pruner and trimmer
83110	Train driver		

51931	Undertaker	72312	Vehicle frame builder
72159	Underwater cable splicer	75229	Vehicle frame builder (wood)
75402	Underwater diver	71250	Vehicle glazier
33212	Underwriter	31720	Vehicle inspector (government)
33212	Underwriter, insurance	31720	Vehicle inspector (private sector)
43122	Underwriting clerk	93332	Vehicle loader, road and railway
23101	University teacher	72133	Vehicle sheet metal worker
75349	Upholsterer, aircraft	75342	Vehicle upholsterer
75342	Upholsterer, automobile	91220	Vehicle washer
75341	Upholsterer, furniture	96292	Vending machine collector
75342	Upholsterer, rail-carriage	72339	Vending machine repairer and servicer
75349	Upholsterer, soft furnishings	52110	Vendor, street (excluding prepared food or drinks)
75342	Upholsterer, vehicle	52120	Vendor, street (prepared food or drinks)
21610	Urban design architect	75222	Veneer applier
21641	Urban land planner	81722	Veneer cutter
21641	Urban planner	81722	Veneer cutting lathe operator
22138	Urologist	75219	Veneer dryer tender
96259	Usher	81723	Veneer glue spreader
		75229	Veneer grader
		81722	Veneer machine operator, rotary
		81724	Veneer press operator
		81723	Veneer sheet gluer
		81859	Ventilation and heating equipment operator
		31154	Ventilation engineering technician
		31189	Ventilation systems draughtsman
		31189	Ventilation systems draughtsperson
		34429	Ventriloquist
		33493	Venture capital & private equity administrators
		33221	Venture capital & private equity business development executive
		41202	Verbatim reporter
		81642	Vermicelli making machine operator
		22500	Veterinarian
		22500	Veterinarian, public health
		32400	Veterinary assistant
		22500	Veterinary epidemiologist
		32400	Veterinary nurse
		22500	Veterinary pathologist
		22500	Veterinary surgeon
		32400	Veterinary technician
		32400	Veterinary vaccinator
		83425	Vibrating-screed operator (concrete paving)

V

61229	Vaccinator (poultry)
32400	Vaccinator, veterinary
81619	Vacuum oven operator (foodstuffs)
81314	Vacuum pan operator (chemical and related processes)
81629	Vacuum pan operator (condensed milk)
81619	Vacuum pan operator (food essences)
96212	Valet service boy (hotel)
33151	Valuer
83223	Van driver
72311	Van, motor, mechanic
75222	Varnisher (wooden furniture finishing)
81719	Varnishing machine operator (papermaking)
42111	Vault teller
61119	Vegetable farmer
61119	Vegetable garden worker
75190	Vegetable pickler
75190	Vegetable preserver
72312	Vehicle body builder
75229	Vehicle body builder (wood)
72133	Vehicle body repairer
74110	Vehicle electrician
72311	Vehicle engine tuner

29011	Vicar	93334	Warehouse porter
13451	Vice principal, school	13241	Warehousing department manager
35212	Video camera operator	13241	Warehousing manager
35212	Video camera operator, sports	81522	Warp knitting machine operator
26545	Video editor	91210	Washer (laundry service)
21524	Video equipment engineer	81319	Washer operator (chemical and related processes)
74212	Video equipment mechanic	91220	Washer, car
31143	Video equipment technician	75119	Washer, carcass
35214	Video operator (television broadcasting)	81543	Washer, cloth (textile making)
35214	Video recording equipment operator (television broadcasting)	94104	Washer, dish
74212	Video reproducing and recording equipment mechanic	81543	Washer, textile
81679	Vinegar maker	91220	Washer, vehicle
61900	Vineyard worker	81543	Washer, yarn
36204	Violin instructor (extracurriculum)	91302	Washerwoman (household)
73120	Violin maker and repairer	81830	Washing machine operator, bottle
26521	Violinist	81319	Waste treatment operator (radio-active materials)
21323	Virologist, plant	73111	Watch and clock assembler
23512	Visual teaching aid specialist	73112	Watch and clock repairer
34391	Visualiser	81419	Watchcase vulcaniser (tyres)
26523	Vocal group conductor	96261	Watchman
26524	Vocalist	81853	Water pumpman
26359	Vocational guidance counsellor	81854	Water treatment plant operator (water works)
23200	Vocational school teacher	13291	Water works manager
73120	Voicer (organ)	83509	Waterman
21142	Volcanologist	71249	Waterproofing worker
81419	Vulcaniser (rubber goods, except tyres)	83329	Water-tank driver
81419	Vulcaniser, tyre	73161	Waxer (glass sandblasting)
81419	Vulcaniser, watchcase (tyres)	81719	Waxing machine operator (papermaking)
		21120	Weather forecaster
		81521	Weaver, axminster
		75299	Weaver, basket
		81521	Weaver, cloth
		81521	Weaver, jacquard
		75299	Weaver, straw
		81521	Weaving machine operator
		81521	Weaving operator (jacquard loom)
		25122	Web developer
		35140	Webmaster
		35140	Website administrator
		35140	Website technician
		75401	Weed controller
		81626	Weigher (sugar confectionery)
		33599	Weights and measures inspector (government)
		72121	Welder

W

43114	Wages clerk
40000	Wages section supervisor
51312	Waiter (general)
51311	Waiter supervisor
51311	Waiter, head
51312	Waiter, railway dining car
51312	Waiter, wine
71220	Wall tiler
71312	Wallpaper hanger
81841	Wallpaper printer
54199	Warden, game or bird sanctuary
54130	Warden, prison
54199	Warden, wild life
43212	Warehouse clerk

26359	Welfare officer for the deaf	81231	Wire drawer
26359	Welfare officer for the physically handicapped	72229	Wire goods maker
34129	Welfare support worker	71149	Wire mesh worker, reinforcing (concrete)
26351	Welfare worker	81243	Wire plater (machine)
26353	Welfare worker, mental	35215	Wire recording equipment operator
26351	Welfare worker, prison	74131	Wireman, electric power (overhead)
26351	Welfare worker, social	74139	Wireman, electric power (underground)
81132	Well borer (except oil and gas)	74131	Wireman, electric traction (overhead)
71144	Well cementer (oil and gas)	74223	Wireman, telephone and telegraph
81132	Well driller (water well)	51411	Women's hairdresser
81132	Well driller and borer (except oil and gas wells)	34129	Women's shelter worker
72156	Well drilling rigger, oil and gas	75229	Wood bender
81139	Well puller (oil and gas wells)	71220	Wood block floor layer
81712	Wet-end machine operator (papermaking)	71151	Wood boatbuilder
62220	Whaler crewman	75229	Wood grader
31599	Wharf superintendent	81711	Wood grinder
31599	Wharfinger	75212	Wood impregnator
93331	Wharfman (docker)	81739	Wood lathe setter-operator
81319	White lead maker	71151	Wood mast and spar maker
71329	Whitewasher	75229	Wood pattern-maker
14204	Wholesale merchant (working proprietor)	81739	Wood planing machine operator
14202	Wholesale trade manager	81739	Wood planing machine setter- operator
52202	Wholesale trade salesman	81732	Wood sawyer, precision
14204	Wholesaler (working proprietor)	75211	Wood seasoning worker
75291	Wicker furniture maker	81739	Wood shaping machine operator
51419	Wig dresser	81739	Wood shaping machine setter- operator
75409	Wig maker	81729	Wood shavings machine operator
34429	Wild animal trainer (circus)	71151	Wood shipwright
51942	Wild animal trainer (zoo)	75212	Wood treating worker
54199	Wild life warden	81739	Wood turner
83431	Winch operator	81739	Wood turning lathe operator
81512	Winder, thread and yarn	75222	Wooden furniture finisher
81512	Winding machine operator (thread and yarn)	75229	Wooden model maker
91230	Window cleaner	75229	Wooden sandals maker
34323	Window display designer	75229	Wooden tank maker
34324	Window dresser	73120	Woodwind instrument maker
71199	Window frame installer (non- wood)	81731	Woodworking machine operator (general)
71151	Window frame installer (wood)	81731	Woodworking machine setter- operator (general)
71290	Window grills installer	72339	Woodworking machinery fitter
81679	Wine blender	72339	Woodworking machinery fitter- assembler
81679	Wine clarifier		
51312	Wine steward		
75159	Wine taster		
51312	Wine waiter		
81243	Wire coating machine operator		

Y

83509 Yacht crewman
31529 Yacht skipper
83121 Yard coupler (railway)
83129 Yardmaster, railway
81512 Yarn doubler
81542 Yarn dyer
81511 Yarn spinner
81512 Yarn twister
81543 Yarn washer
81512 Yarn winder
81679 Yeast maker
14111 Youth hostel manager
34129 Youth leader
36209 Youth leadership teacher
53114 Youth residential care assistant
34121 Youth worker

Z

81242 Zinc dipper
51132 Zoo guide
51942 Zoo keeper
21313 Zoologist
31419 Zoology technician

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Revision of SSOC 2010

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SINGAPORE DEPARTMENT OF STATISTICS INFORMATION DISSEMINATION SERVICES

Statistics Singapore Website

The Statistics Singapore Website was launched by the Singapore Department of Statistics (DOS) in January 1995. Internet users can access the website by connecting to:

<http://www.singstat.gov.sg>

Key Singapore statistics are available via the following sections:

- ◆ **Statistics**
which provide key data on Singapore's economy and population.
- ◆ **News**
which cover the Performance of Singapore Economy, the Consumer Price Index, the Wholesale Trade Index, Business Receipts Index for Service Industries, Retail Sales and Catering Trade Indices, Manufacturing Performance, Singapore External Trade, Tourism Sector Performance, Real Estate Information and Employment Situation.
- ◆ **Publications - Papers & Analyses**
which provide papers on economic and social topics.
- ◆ **Themes**
which presents official statistics compiled by DOS and the Research and Statistics Units in the various ministries and statutory boards according to themes. Within each theme, relevant statistics and related press releases, publications and references are provided.

Statistical resources are available via:

- ◆ **Publication Catalogue**
which lists the latest editions of publications released by the Singapore Department of Statistics at <http://www.singstat.gov.sg/pubn/catalog.html>. All softcopy DOS publications are available for free downloading. Statistical tables of DOS publications in Excel format are also available.
- ◆ **Advance Release Calendar**
which covers key Singapore economic indicators.

The website also provides a convenient gateway to international statistical websites under the "Statistical Resources" section:

- ◆ **Guide to International Statistics**
which covers international databases, classifications and links, and statistical terms and definitions.
- ◆ **IMF Dissemination Standards Bulletin Board**
which provides metadata about Singapore's key indicators in the real, fiscal, financial and external sectors, including dissemination practices and information about pre-release access of current indicators.

SingStat Express

SingStat Express is a personalised data delivery service which sends the latest press releases, notices of publication, newsletter, occasional and information papers to subscribers via email. SMS alert service is also available to local users. Subscription details are available from the Statistics Singapore Website (www.singstat.gov.sg/express).

SINGAPORE DEPARTMENT OF STATISTICS INFORMATION DISSEMINATION SERVICES (continued)

Really Simple Syndication

Really Simple Syndication (RSS) is an easy way to stay updated on the latest statistical news released via the Statistics Singapore Website. The SingStat RSS feed delivers statistical news highlights and hyperlinks to the source documents whenever the updates are posted. More information are available at <http://www.singstat.gov.sg/svcs/rss.html>.

Data on SMS

Data on SMS is a free mobile service for local data users to receive the latest data for key indicators via SMS. Simply key **data** and SMS to 74688 (or SGOVT) for the service. More information is available at <http://www.singstat.gov.sg/svcs/dataonsms.html>.

SingStat Time Series (STS) Online System

The SingStat Time Series (STS) Online System is an internet-accessible time series retrieval system. The STS includes more than 7,000 historical data series on Singapore society and economy from several domains, including national accounts, balance of payments, investments, finance, labour, prices, business expectations, trade, manufacturing, tourism, demography, health and education.

Besides the usual monthly, quarterly and annual data, STS includes also seasonally adjusted data series for key economic indicators providing for a better analysis and understanding of current economic trends. The STS also offers:

- Web-based search engine that is easy to use;
- "Bookmark" features that enable users to save and organise links in their personalised portals.

Subscription to STS is opened to local and overseas users. More information on STS are available via Statistics Singapore Website. For enquiries, please contact our Department at **Tel : 6332-7119**.

E-survey

The E-survey enables business organisations to complete and submit their survey forms through the internet. Using secured encryption protocols, the E-survey ensures that the information transmitted through the net is secured and protected. The system features online helps and validation checks to assist respondents in completing their survey forms. With the E-survey, respondents do away with the tedious paper work and manual tasks of mailing or faxing their survey returns to the Department.

Statistical Enquiries and Feedback

If you have any statistical enquiries or comment or suggestions on our statistical publications and electronic services, you are welcomed to :

- ◆ E-mail us at **info@singstat.gov.sg**
- ◆ Fax to us at **(65) 6332-7689**
- ◆ Call us at **1800-3238118* (local callers)**
(65) 6332-7738 (overseas callers)

* Calls from mobile telephone lines to 1800 local toll free number may be subject to mobile