

Singapore Standard Educational Classification 2000

SINGAPORE STANDARD EDUCATIONAL CLASSIFICATION 2000
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PREFACE

The Singapore Department of Statistics is responsible for developing national statistical standards and promoting the adoption of these standards. The *Singapore Standard Educational Classification (SSEC) 2000* is the first national statistical standard classification to be developed for education statistics. It is designed for use in censuses of population and statistical surveys of households. The classification may also be used in administrative databases. The adoption of a common framework for classification facilitates data-sharing among producers while consistent and comparable data are available for analysis by users.

The SSEC 2000 comprises 3 components – level of education attending, level of educational qualification attained and field of study. This publication describes the scope, structure and practical considerations in the design and use of the SSEC 2000. An alphabetical index for field of study is included to facilitate understanding and use of the classification. In preparing the SSEC 2000, references are made to Singapore's education system and the classifications of statistically advanced countries. The SSEC will be revised periodically to take into account new developments and changes in the education system of Singapore.

The SSEC 2000 is prepared by a working group comprising representatives from the Singapore Department of Statistics, Ministry of Education, Ministry of Manpower, Institute of Technical Education and Singapore Productivity & Standards Board. Valuable contributions are also made by other government agencies, educational institutions and professional bodies. I would like to express my appreciation to all who have, in one way or other, contributed towards the classification.

Dr Paul Cheung
Chief Statistician
Singapore

February 2000

Our

Mission

To develop and manage a national statistical information system of quality and integrity to support Singapore's social and economic development.

Performance Pledge

We pledge to maintain high service standards in meeting the data needs of local and overseas users :

Accessibility *We provide a wide range of products and services which are readily accessible by the general public.*

Relevance *We make special efforts to improve the relevance of statistical data to meet user needs.*

Reliability *We benchmark ourselves against international best practices in statistical activities and adopt rigorous quality assurance standards.*

Timeliness *We strive for the earliest possible release of data, while balancing the need to maintain data quality.*

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SINGAPORE STANDARD EDUCATIONAL CLASSIFICATION 2000

INTRODUCTION

The Singapore Standard Educational Classification (SSEC) is developed to provide a common statistical framework for classifying and aggregating information on formal educational qualifications and educational programmes pursued. As a national statistical classification, the SSEC facilitates data-sharing among producers of education statistics while providing consistent and comparable data to users for analysis.

The SSEC 2000 is designed for use in the Census of Population 2000. It will also be used in subsequent statistical surveys of households and population. The classification may be used in administrative systems requiring the classification of data on educational levels and courses.

SCOPE AND STRUCTURE OF THE CLASSIFICATION

The SSEC 2000 comprises three integral components:

- Level of Education Attending
- Educational Qualification Attained
- Field of Study

In drawing up the hierarchical structure of the SSEC, Singapore's present education system and the formal educational qualifications currently awarded in Singapore are used to define the aggregation levels and groupings. For foreign educational systems and qualifications which were awarded in Singapore in the past or those awarded overseas, the approximate equivalents to the current system and qualifications in Singapore can be used to facilitate the appropriate classification.

Level of Education Attending

The level of education attending refers to the grade or standard of formal education that a full-time student is attending. Six broad levels of education are identified:

<i>Broad Level</i>	<i>Typical Age (years)</i>	<i>Years of Schooling</i>
Pre-primary	4 to 5	2
Primary	6 to 11	6
Secondary	12 to 15	4
Upper Secondary	16 to 18	2 to 3
Diploma courses	16 to 18	2 to 3
University	18 to 25	3 to 5

A systematic illustration providing details of the Singapore education system is given in Appendix I.

The classification for level of education attending is a two-digit hierarchical structure. The six broad groups are broken down into more

detailed categories by the grade of education at primary and secondary levels and by the type of curriculum (general/vocational) at upper secondary and higher levels, where appropriate.

Educational Qualification Attained

The level of educational qualification attained refers to the grade or standard of formal education passed or the highest level of education where a certificate, diploma or degree is awarded by a formal educational institution. The educational qualification may be attained through full-time or part-time study in a structured educational programme.

The levels of educational qualifications are categorised into nine broad groups:

<i>Level of Education</i>	<i>Benchmark</i>
No Qualification/ Lower Primary Education	Did not pass Primary School Leaving Examination (PSLE) or equivalent
Primary Qualification	Passed PSLE or equivalent
Lower Secondary Education	Did not pass General Certificate of Education (GCE) at 'Normal' or 'Ordinary' Level or equivalent
Secondary Qualification	Obtained at least one pass at GCE 'Normal' or 'Ordinary' Level or equivalent
Upper Secondary Qualification	Obtained at least one pass at GCE 'Advanced' Level or equivalent
Polytechnic Diploma	Awarded a diploma or advanced diploma by a Polytechnic
Professional Qualification	Obtained a certificate, diploma or other qualification by a professional body
University First Degree	Awarded first degree by a university
University Postgraduate Qualification	Awarded postgraduate diploma or degree by a university or post-graduate educational institution

In defining the broad groups of educational qualifications, the certification used in Singapore's formal educational system is used as

benchmark. For qualifications awarded by professional bodies, these must be the result of the fulfilment of the requirements of structured educational programmes and passing of the appropriate standards. The levels of educational qualifications exclude skill certification, certificates of course attendance and honorary qualifications which are not the result of formal learning and examination by a formal educational institution or professional body.

The classification for level of educational qualification attained is a two-digit hierarchical structure. The nine broad groups contain more detailed distinctions by type of qualification (general/vocational) where appropriate.

Field of Study

Field of study refers to the principal discipline, branch or subject matter of study that leads to the award of the qualification attained at polytechnic or university levels. Vocational qualifications at upper secondary level may also be classified by field of study.

The classification for field of study is a four-digit hierarchical structure comprising three levels. The levels of this hierarchy are termed as broad fields, narrow fields and detailed fields. Broad fields constitute the highest level of aggregation in the field of study classification. There are 14 broad fields, each identified by the first two digits of a code for field of study. They are broken down into 57 three-digit narrow fields and 230 four-digit detailed fields of study. The 14 broad fields of study are as follows:

- 01 Education
- 02 Fine & Applied Arts
- 03 Humanities & Social Sciences
- 04 Mass Communication & Information Science
- 05 Business & Administration
- 06 Law
- 07 Natural, Physical, Chemical & Mathematical Sciences
- 08 Health Sciences
- 09 Information Technology
- 10 Architecture & Building
- 11 Engineering Sciences

- 12 Engineering, Manufacturing & Related Trades
- 13 Services
- 99 Other Fields

The following illustration shows the formation of the four-digit code for the field of study on ‘Human Resource Management’:

<i>Classification</i>	<i>Title</i>	<i>Code</i>
Broad Field	Business & Administration	05
Narrow Field	Administration & Management	051
Detailed Field	Human Resource Management	0512

Codes ending in ‘9’ at the 3rd or 4th digit levels denote known courses of study that are ‘not elsewhere classified’ (nec) within the respective narrow and detailed fields.

PRACTICAL CONSIDERATIONS IN DESIGN AND USAGE OF CLASSIFICATION

In designing the SSEC, a major consideration is the requirements for classifying data collected in the Census of Population 2000 and the extent of details that could be obtained from households. For example, there is no distinction between professional qualifications awarded by accredited institutions and those that are not accredited. Respondents are generally not able to provide sufficient information for such distinction either for themselves or on behalf of household members. Similar experience would be encountered for households covered in sample household surveys like the Labour Force Survey.

The structure and the notation system of the SSEC make it possible to classify, tabulate, analyse and publish data according to the level of detail required. For instance, the Census of Population 2000 would be collecting data on level of education attending, educational qualification attained and field of study at higher levels of aggregation:

	<i>Most Detailed Level in SSEC</i>	<i>Level to be Used in C2000</i>
• Level of Education Attending	2 nd Level	1 st Level
• Educational Qualification Attained	2 nd Level	1 st Level
• Field of Study	3 rd Level	2 nd Level

The benchmark used in defining broad groups of educational qualification in the statistical classification is less stringent than the operational requirements for administration of educational programmes and personnel matters. For purposes of statistical compilation and analysis, a person who passed in at least one subject in the GCE 'N'/'O' or 'A' level examination, regardless of the number of passes, is deemed to have attained a qualification at secondary or upper secondary level respectively in the SSEC. This reflects the difficulty and, sometimes sensitivity, in probing for more detailed examination results from households.

CLASSIFICATION OF LEVEL OF EDUCATION ATTENDING

SSEC 2000	Description
0	PRE-PRIMARY
01	Pre-Primary
1	PRIMARY
11	Primary 1
12	Primary 2
13	Primary 3
14	Primary 4
15	Primary 5
16	Primary 6
19	Other primary education or equivalent (including International Schools)
2	SECONDARY : GENERAL
21	Secondary 1
22	Secondary 2
23	Secondary 3
24	Secondary 4
25	Secondary 5
29	Other secondary education or equivalent (including International Schools)
3	SECONDARY : VOCATIONAL
31	Basic vocational certificate course or equivalent (including Basic Vocational Training)
32	Certificate of Competency
33	Technical certificate course at NTC Grade 3 level or equivalent
39	Other skilled certificate courses (eg ITE Certificate in Health Care)
4	UPPER SECONDARY : GENERAL
41	Pre-University 1 / Junior College 1
42	Pre-University 2 / Junior College 2
43	Pre-University 3
49	Other upper secondary education or equivalent (including International Schools)

CLASSIFICATION OF LEVEL OF EDUCATION ATTENDING

SSEC 2000	Description
5	UPPER SECONDARY : VOCATIONAL
51	Certificate in Office Skills
52	Certificate in Business Skills
53	Technical certificate course at NTC Grade 2 level or equivalent
54	Technical certificate course at NTC Grade 1 level or equivalent
55	Industrial Technician Certificate
59	Other advanced certificate courses (eg SIM certificate)
6	POLYTECHNIC DIPLOMA COURSE
61	Polytechnic diploma
62	Polytechnic advanced diploma (including polytechnic advanced/post/specialist/management/graduate diploma)
7	OTHER COURSES LEADING TO AWARD OF PROFESSIONAL QUALIFICATION AND OTHER DIPLOMA
71	National Institute of Education (NIE) diploma
79	Other diplomas (eg SIM diploma)
8	UNIVERSITY FIRST DEGREE
80	Bachelor degree (including NIE bachelor degree with diploma in education)
9	UNIVERSITY POSTGRADUATE DIPLOMA/DEGREE
91	Postgraduate diploma (including NIE postgraduate diploma)
92	Master
93	Doctorate
X	Not Reported
XX	Not reported

ITE : Institute of Technical Education
 NTC : National Technical Certificate
 SIM : Singapore Institute of Management

CLASSIFICATION OF EDUCATIONAL QUALIFICATION ATTAINED

SSEC 2000	Description
0	NO FORMAL QUALIFICATION/LOWER PRIMARY
01	Never attended school
02	Primary education without PSLE/PSPE certification or their equivalent
03	Certificate in BEST 1-3
1	PRIMARY
11	Primary School Leaving Certificate (PSLE) / Primary School Proficiency Certificate (PSPE) or other certificates of equivalent standard
12	Certificate in BEST 4
2	LOWER SECONDARY
21	Secondary education without a GCE 'O' / 'N' Level pass or their equivalent
22	Certificate in WISE 1-3
23	Basic vocational certificates (including ITE Basic Vocational Training
3	SECONDARY
31	At least 1 GCE 'N' Level pass
32	At least 1 GCE 'O' Level pass
33	Certificate of Competency
34	Technical certificate at NTC Grade 3 level or equivalent (eg Certificate of Vocational Training, BCA Builder Certificate)
39	Other certificates or qualifications of equivalent standard
4	UPPER SECONDARY : GENERAL
41	At least 1 GCE 'A' Level pass
49	Other qualifications of equivalent standard

CLASSIFICATION OF EDUCATIONAL QUALIFICATION ATTAINED

SSEC 2000	Description
5	UPPER SECONDARY : VOCATIONAL
51	Certificate in Office Skills
52	Certificate in Business Skills
53	Technical certificate at NTC Grade 2 level or equivalent (including Advanced Builder Certificate)
54	Technical certificate at NTC Grade 1 level or equivalent
55	Industrial Technician Certificate or equivalent (including polytechnic certificates)
59	Other advanced certificates (eg SIM certificates)
6	POLYTECHNIC DIPLOMA
61	Polytechnic diploma
62	Polytechnic advanced diploma (including polytechnic advanced/post/specialist/ management/graduate diploma)
63	Polytechnic post-diploma certificate
7	PROFESSIONAL QUALIFICATION AND OTHER DIPLOMA
71	Qualifications awarded by professional bodies
72	National Institute of Education (NIE) diploma
79	Other diploma qualifications (eg SIM diploma)
8	UNIVERSITY FIRST DEGREE
80	Bachelor degree
9	UNIVERSITY POSTGRADUATE DIPLOMA/DEGREE
91	Postgraduate diploma (including NIE postgraduate diploma)
92	Master
93	Doctorate
X	NOT REPORTED
XX	Not reported

BEST : Basic Education for Skills Training
 WISE : Worker Improvement through Secondary Education

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
01	EDUCATION
011	TEACHER TRAINING
0111	General Teacher Training
0112	Early Childhood Education
0113	Special Education
0114	Physical Education
0119	Teacher Training nec (eg teaching of vocational subjects)
012	EDUCATION SCIENCE
0121	Education Management & Administration
0122	Curriculum Development
0123	Educational Assessment
0124	Educational Psychology
0125	Educational Technology
0129	Education Science nec
02	FINE & APPLIED ARTS
021	FINE & PERFORMING ARTS
0211	Fine Arts
0212	Music
0213	Drama (including theatre studies)
0214	Dance
0219	Fine & Performing Arts nec
022	DESIGN & APPLIED ARTS
0221	Graphic & Multi-Media Design
0222	Fashion Design
0223	Interior Design
0224	Product/Industrial Design
0229	Design & Applied Arts nec
023	MEDIA PRODUCTION
0231	Photography
0232	Videography
0233	Cinematography
0239	Media Production nec

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
029	FINE & APPLIED ARTS NEC
0291	Publishing
0299	Fine & Applied Arts nec
03	HUMANITIES & SOCIAL SCIENCES
031	LANGUAGE & CULTURAL STUDIES
0311	English Studies
0312	Malay Studies
0313	Chinese Studies
0314	Tamil Studies
0319	Language & Cultural Studies nec (eg applied linguistics)
032	BEHAVIOURAL SCIENCE
0321	Sociology & Anthropology
0322	Psychology
0329	Behavioural Science nec (eg criminology)
033	ECONOMICS
0330	Economics
034	SOCIAL WORK
0340	Social Work & Welfare (including vocational counselling)
039	HUMANITIES & SOCIAL SCIENCES NEC
0391	Religious Studies
0392	Philosophy
0393	Geography (including cartography)
0394	Political Science
0395	History
0399	Humanities & Social Sciences nec (including regional studies, international relations, demography, labour studies)

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
04	MASS COMMUNICATION & INFORMATION SCIENCE
041	MASS COMMUNICATION
0411	Mass Communication (including radio & TV broadcasting)
0412	Public Relations
0413	Journalism
042	INFORMATION SCIENCE
0421	Information Science (including library science)
0422	Curatorial Studies (including archival studies, museum studies)
05	BUSINESS & ADMINISTRATION
051	ADMINISTRATION & MANAGEMENT
0511	Business Management
0512	Human Resource Management
0513	Industrial Management
0514	Operations/Logistics Management
0515	Public and Institution Management
0516	Hospitality Management
0517	Arts & Events Management
0519	Administration & Management nec
052	ACCOUNTANCY
0521	Accountancy/Financial Auditing
0522	Bookkeeping
053	BANKING, INSURANCE & FINANCIAL SERVICES
0531	Banking & Financial Investment
0532	Insurance
0539	Banking, Insurance & Financial Services nec (including computational finance)

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
054	SALES & MARKETING
0541	Marketing
0542	Advertising
0543	Retailing & Wholesaling
0544	Merchandising
0549	Sales & Marketing nec
055	MANAGEMENT SUPPORT SERVICES
0551	Secretarial/Office Skills
0552	Keyboarding and Shorthand/Stenography
0559	Management Support Services nec
059	BUSINESS & ADMINISTRATION NEC
0591	E-commerce Management
0599	Business & Administration nec (including entrepreneurship)
06	LAW
061	LAW
0611	Law
0612	Legal Studies
07	NATURAL, PHYSICAL, CHEMICAL & MATHEMATICAL SCIENCES
071	BIOLOGICAL SCIENCES & TECHNOLOGIES
0711	Biology (including botany, zoology)
0712	Physiology
0713	Biochemistry
0714	Microbiology
0715	Biotechnology
0716	Food Science & Technology
0719	Biological Sciences & Technologies nec (including environmental science molecular biology, cell & molecular biology, computational biology)

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
072	PHYSICAL SCIENCES & TECHNOLOGIES
0721	Chemistry (including applied chemistry)
0722	Physics (including applied physics)
0723	Materials Science
0729	Physical Sciences & Technologies nec (including meteorology, astronomy, geology, oceanography, soil & water science, computational chemistry, computational physics)
073	AGRICULTURE & FISHERY
0731	Agricultural Science (including agrobiolgy)
0732	Fishery
0733	Horticulture
0734	Forestry
074	MATHEMATICS & STATISTICS
0741	Mathematics (including applied mathematics)
0742	Statistics
0743	Actuarial Science
0744	Operations Research
0745	Econometrics
0749	Mathematics & Statistics nec (including computational mathematics)
079	NATURAL, PHYSICAL, CHEMICAL & MATHEMATICAL SCIENCES NEC
0799	Natural, Physical, Chemical & Mathematical Sciences nec
08	HEALTH SCIENCES
081	GENERAL MEDICAL SCIENCES
0811	General Medicine (including internal/occupational/public health/family & community medicine)
0812	General Surgery

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
082	SPECIALISED MEDICAL SCIENCES
0821	Obstetrics & Gynaecology
0822	Paediatrics
0823	Anaesthesiology
0824	Radiology
0825	Psychiatry
0826	Orthopaedics
0827	Ophthalmology
0828	Cardiology
0829	Specialised Medical Sciences nec
083	DENTISTRY
0831	General Dentistry
0832	Endodontics
0833	Oral & Maxillo-facial Surgery
0834	Oral Pathology & Oral Medicine
0835	Orthodontics
0836	Paediatrics Dentistry
0837	Periodontics
0838	Prosthodontics
0839	Dental Sciences nec
084	VETERINARY SCIENCES
0841	Veterinary Medicine
0842	Veterinary Support Services
085	NURSING & HEALTH CARE
0851	Nursing
0852	Health care
086	PHARMACY
0860	Pharmacy

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
089	HEALTH SCIENCES NEC
0891	Physiotherapy
0892	Occupational Therapy
0893	Radiography
0894	Nutrition and Dietetics
0895	Public Health
0896	Optometry
0897	Biomedical Science
0898	Medical Laboratory Technology
0899	Health Sciences nec (including cardiac technology)
09	INFORMATION TECHNOLOGY
091	INFORMATION TECHNOLOGY
0911	Computer Science (including programming, networking)
0912	Information Systems (including MIS, system design)
0913	Software Engineering
0914	Business Information Technology (including e-commerce technology business information systems)
0915	Multi-Media Technology
0916	Internet Technology
0919	Information Technology nec
092	COMPUTER OPERATIONS/TECHNICAL SUPPORT
0920	Computer Operations/Technical Support
10	ARCHITECTURE & BUILDING
101	ARCHITECTURE
1011	Architecture
1012	Landscape Architecture
1013	Architectural Technology
102	TOWN PLANNING
1020	Town/Urban Planning

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
103	SURVEYING
1031	Land Surveying
1032	Quantity Surveying
1033	Building Surveying & Inspection
104	BUILDING SCIENCE & MANAGEMENT
1041	Building Science & Technology
1042	Building Construction Management
1043	Building/Estate/Property Management
1049	Building Science & Management nec (including contract management)
105	BUILDING TRADES
1050	Building Trades
109	ARCHITECTURE & BUILDING NEC
1091	Architectural Drafting
1092	Real Estate (including valuation)
1099	Architecture & Building nec
11	ENGINEERING SCIENCES
111	CHEMICAL ENGINEERING
1111	Chemical Engineering (including chemical process engineering)
1112	Polymer Technology
1113	Industrial Chemical Technology (including chemical process technology)
1119	Chemical Engineering nec
112	CIVIL ENGINEERING
1121	Civil Engineering
1122	Structural Engineering
1123	Geotechnical Engineering
1124	Hydraulics Engineering
1125	Transportation Engineering
1126	Environmental Engineering (including public health, water resources engineering)
1129	Civil Engineering nec (including construction engineering, construction technology & materials)

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
113	ELECTRICAL & ELECTRONICS ENGINEERING
1131	Electronics Engineering (including control engineering)
1132	Electrical Engineering (including power engineering)
1133	Communications Engineering
1134	Microelectronics
1139	Electrical & Electronics Engineering nec
114	COMPUTER ENGINEERING
1140	Computer Engineering
115	MECHANICAL ENGINEERING
1151	Mechanical Engineering
1152	Aeronautical Engineering
1153	Automotive Engineering
1154	Thermal Engineering
1155	Mechatronics
1159	Mechanical Engineering nec
116	MARINE ENGINEERING
1161	Marine Engineering
1162	Shipbuilding Engineering
1163	Naval Architecture
1169	Marine Engineering nec
117	MANUFACTURING & RELATED ENGINEERING
1171	Manufacturing/Production Engineering
1172	Industrial Engineering
1173	Materials Engineering
1174	Precision Engineering
1175	Quality Assurance Engineering
1179	Manufacturing & Related Engineering nec
119	ENGINEERING SCIENCES NEC
1191	Metallurgical Engineering
1192	Building Services Engineering
1193	Biomedical Engineering
1199	Engineering Sciences nec

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
12	ENGINEERING, MANUFACTURING & RELATED TRADES
121	ENGINEERING TRADES
1211	Electrical/Electronics Installation & Servicing (eg air-conditioning & refrigeration)
1212	Mechanical Installation & Servicing
1213	Precision Tool Engineering & Design
1214	Motor Vehicle Mechanics
1215	Aircraft Mechanics
1216	Marine Engineering Mechanics
1219	Engineering Trades nec (eg pipe & steel fabrication, welding, diesel engine mechanics)
122	MANUFACTURING TRADES
1221	Manufacture of Electronic Products & Components
1222	Printing Crafts
1223	Furniture Production/Carpentry
1224	Footwear/Textile/Clothing Production
1229	Manufacturing Trades nec
129	ENGINEERING, MANUFACTURING & RELATED TRADES NEC
1291	Civil & Structural Drafting
1292	Electrical Drafting
1293	Mechanical Drafting
1299	Engineering, Manufacturing & Related Trades nec
13	SERVICES
131	PERSONAL SERVICES
1311	Hairdressing
1312	Beauty Services
1313	Fashion Garment/Garment Patternmaking
1314	Domestic Science
1319	Personal Services nec

CLASSIFICATION OF FIELD OF STUDY

SSEC 2000	Field of Study
132	FOOD SERVICES
1321	Food Preparation/Culinary Skills
1322	Food & Beverage Management/Services
1329	Food Services nec
133	HOSPITALITY SERVICES
1331	Front Office Operations
1332	Accommodation Management
1333	Housekeeping
1334	Travel/Tourism Services
1339	Hospitality Services nec
134	TRANSPORT SERVICES
1341	Maritime Studies (including nautical studies, maritime transportation
1342	Aircraft Operation
1343	Air Traffic Control
1349	Transport Services nec
135	SECURITY SERVICES
1351	Police Studies & Security Management
1352	Civil Defence
1353	Fire Fighting
1354	Hotel Security
1355	Occupational Safety Management (including fire & safety management)
1359	Security Services nec
99	OTHER FIELDS
999	OTHER FIELDS NEC
9991	Translation & Interpretation
9999	Other Fields nec
XX	NOT REPORTED
XXX	NOT REPORTED
XXXX	Not Reported

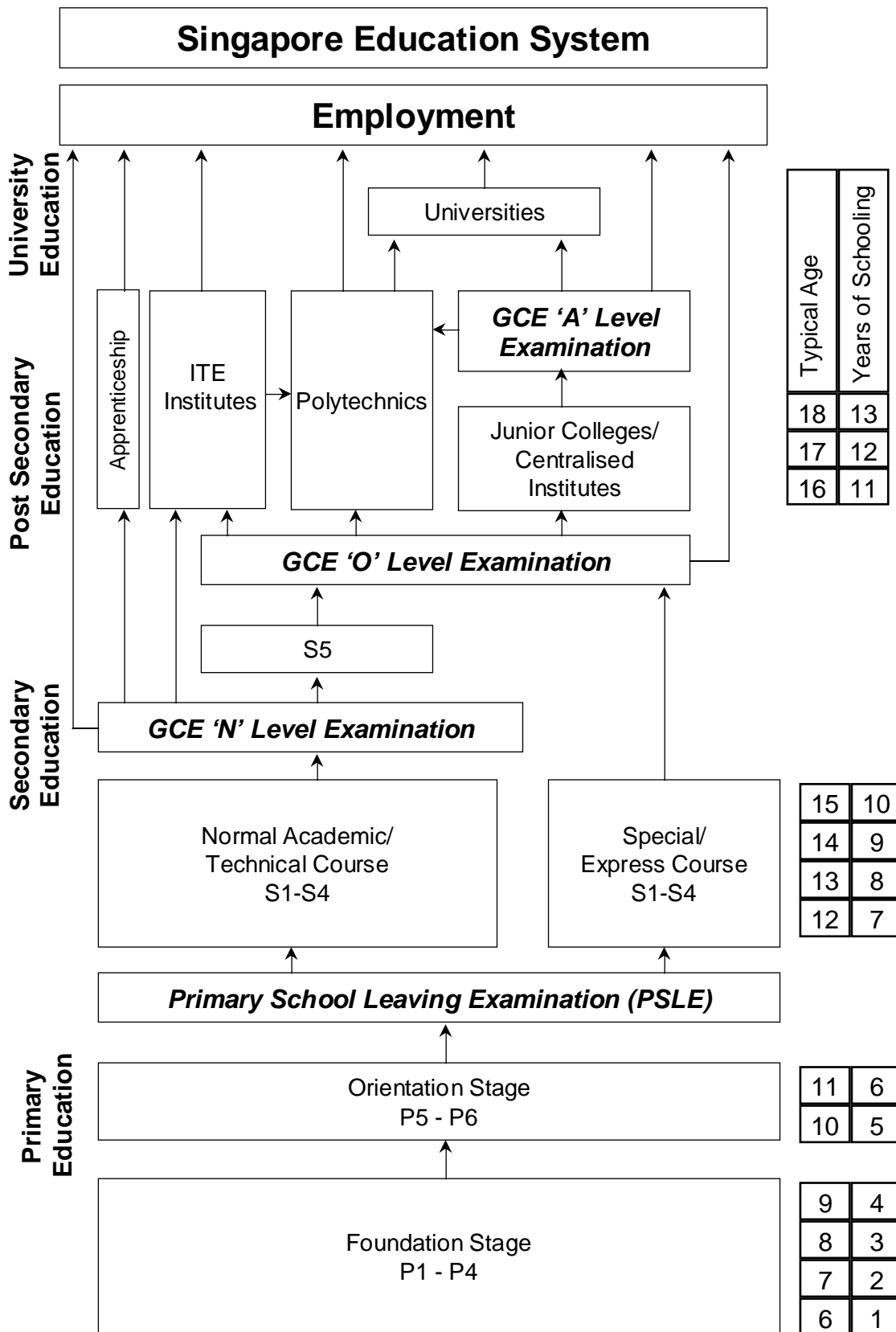
nec: not elsewhere classified.



APPENDIX I

SINGAPORE EDUCATION SYSTEM





Source: Ministry of Education



APPENDIX II

ALPHABETICAL INDEX FOR FIELD OF STUDY



A

1332	Accommodation Management
0521	Accountancy
0743	Actuarial Science
0542	Advertising
1152	Aeronautical Engineering
1152	Aeronautical Maintenance Engineering
0731	Agricultural Science
0731	Agrobiology
1343	Air Traffic Control
1211	Air-conditioning & Refrigeration Installation & Servicing
1215	Aircraft Mechanics
1342	Aircraft Operation
1342	Aircrew Training
1125	Airport Engineering
0319	American Studies
0823	Anaesthesiology
0799	Analytical Science & Laboratory Management
0321	Anthropology
0222	Apparel Design & Merchandising
0549	Apparel Merchandising
0721	Applied Chemistry
0330	Applied Economics
0539	Applied Finance
0716	Applied Food Science & Nutrition
0319	Applied Linguistics
0741	Applied Mathematics
0722	Applied Physics
0322	Applied Psychology
0799	Applied Science
0321	Applied Sociology
0399	Archaeology
1091	Architectural Drafting
1013	Architectural Technology
1011	Architecture
0422	Archival Studies
0517	Arts & Events Management
0729	Astronomy
1131	Automation & Control Technology
1153	Automotive Engineering
0519	Aviation Management

B

0531	Banking & Financial Investment
0531	Banking & Financial Services
1312	Beauty Services
1222	Binding & Finishing
0713	Biochemistry
1199	Bioengineering
0711	Biology
1193	Biomedical Engineering
0897	Biomedical Science
0715	Biotechnology
0522	Bookkeeping
0711	Botany
1050	Bricklaying
0411	Broadcasting Operations
1050	Building Carpentry
1042	Building Construction Management
1049	Building Contract Management
1050	Building Maintenance & Servicing
1043	Building Management
1041	Building Science
1041	Building Science & Technology
1192	Building Services Engineering
1033	Building Surveying & Inspection
1050	Building Trades
0511	Business
0511	Business & Commerce
0914	Business Information Systems
0914	Business Information Technology
0611	Business Law
0511	Business Management

C

0899	Cardiac Technology
0828	Cardiology
0828	Cardiothoracic Surgery
1223	Carpentry
1050	Carpentry, Building
0393	Cartography
0719	Cell & Molecular Biology
1111	Chemical Engineering
1111	Chemical Process Engineering
1113	Chemical Process Technology

1113	Chemical Technology & Instrumentation
0721	Chemistry
0313	Chinese Language & Culture
0313	Chinese Studies
0899	Chiropractic
0233	Cinematography
1121	Civil & Construction Engineering
1126	Civil & Environmental Engineering
1291	Civil & Structural Drafting
1122	Civil & Structural Engineering
1352	Civil Defence
1121	Civil Engineering
0829	Clinical Embryology
0860	Clinical Pharmacy
1224	Clothing Production
0911	Communication & Computer Networking
0911	Communication & Networking Systems
0411	Communication Studies
1341	Communication, Maritime Radio
1133	Communication, Wireless
1133	Communications Engineering
0811	Community Medicine
0519	Community Services Management
0611	Comparative Law
0719	Computational Biology
0729	Computational Chemistry
0539	Computational Finance
0749	Computational Mathematics
0729	Computational Physics
0911	Computer & Communication Systems
0221	Computer Animation & Visualisation
1140	Computer Engineering
0912	Computer Information Systems
1179	Computer Integrated Manufacturing
0221	Computer Music & Audio Production
0911	Computer Networking
0920	Computer Operations Support
0911	Computer Programming
0911	Computer Science
0911	Computer Studies
0920	Computer Technical Support
0911	Computer Technology
1129	Construction Engineering
1049	Construction Management
1129	Construction Technology & Materials
1131	Consumer Electronics Engineering

0896 Contact Lens Practice
1131 Control & Instrumentation Engineering
1131 Control Engineering
0329 Criminology
1321 Culinary Skills
0422 Curatorial Studies

D

0214 Dance
0911 Data Communication & Networking
0399 Demography
0831 Dental Sciences
0831 Dentistry
0836 Dentistry, Paediatrics
0829 Dermatology
0893 Diagnostic Radiography
0824 Diagnostic Radiology
1219 Diesel Engine Mechanics
0221 Digital Media Design
1314 Domestic Science
1091 Drafting, Architectural
1291 Drafting, Civil & Structural
1292 Drafting, Electrical
1293 Drafting, Mechanical
1299 Drafting, Mechanical & Electrical
0213 Drama

E

0719 Ecology
0591 E-commerce Management
0914 E-commerce Technology
0745 Econometrics
0330 Economics
0121 Education Administration
0122 Education Curriculum Development
0121 Education Management
0123 Educational Assessment
0124 Educational Psychology
0125 Educational Technology
1139 Electrical & Electronics Engineering
1292 Electrical Drafting
1132 Electrical Engineering
1211 Electrical Installation & Servicing

1133 Electronics & Communications Engineering
 1131 Electronics Engineering
 1211 Electronics Installation & Servicing
 1131 Electronics, Computer & Control Engineering
 0811 Emergency Medicine
 0829 Endocrinology
 0832 Endodontics
 0741 Engineering Mathematics
 1152 Engineering, Aeronautical
 1152 Engineering, Aeronautical Maintenance
 1125 Engineering, Airport
 1153 Engineering, Automotive
 1193 Engineering, Biomedical
 1192 Engineering, Building Services
 1111 Engineering, Chemical
 1121 Engineering, Civil
 1121 Engineering, Civil & Construction
 1126 Engineering, Civil & Environmental
 1122 Engineering, Civil & Structural
 1133 Engineering, Communications
 1140 Engineering, Computer
 1129 Engineering, Construction
 1131 Engineering, Consumer Electronics
 1131 Engineering, Control
 1131 Engineering, Control & Instrumentation
 1132 Engineering, Electrical
 1139 Engineering, Electrical & Electronics
 1131 Engineering, Electronics
 1133 Engineering, Electronics & Communications
 1131 Engineering, Electronics, Computer & Control
 1126 Engineering, Environmental
 0539 Engineering, Financial
 1199 Engineering, Food
 1123 Engineering, Geotechnical
 1132 Engineering, High Voltage
 1124 Engineering, Hydraulics
 1172 Engineering, Industrial
 1172 Engineering, Industrial & Systems
 1171 Engineering, Manufacturing
 1161 Engineering, Marine
 1173 Engineering, Materials
 1173 Engineering, Materials Science
 1151 Engineering, Mechanical
 1151 Engineering, Mechanical & Production Engineering
 1191 Engineering, Metallurgical
 0915 Engineering, Multi-Media Software

0915 Engineering, Multi-Media System
1132 Engineering, Power
1132 Engineering, Power Plant
1174 Engineering, Precision
1131 Engineering, Process
1171 Engineering, Production
1126 Engineering, Public Health
1175 Engineering, Quality Assurance
1139 Engineering, Radio Frequency
1126 Engineering, Safety, Health & Environment
1162 Engineering, Shipbuilding
1162 Engineering, Shipbuilding & Offshoring
0913 Engineering, Software
1122 Engineering, Structural
1154 Engineering, Thermal
1125 Engineering, Transportation
1126 Engineering, Water Resources
0311 English Literature
0311 English Studies
0599 Entrepreneurship
1126 Environmental Engineering
0719 Environmental Science
1043 Estate Management
0392 Ethics
0319 European Studies

F

0811 Family Medicine
0222 Fashion Design
1313 Fashion Garment Patternmaking
0233 Film, Sound & Video Production
0521 Financial Auditing
0539 Financial Engineering
0211 Fine Arts
1355 Fire & Safety Management
1353 Fire Fighting
0732 Fishery
1322 Food & Beverage Management
1322 Food & Beverage Services
1199 Food Engineering
1321 Food Preparation
0716 Food Science & Technology
1224 Footwear Production
0734 Forestry
1331 Front Office Operations

1223 Furniture Production

G

1313 Garment Patternmaking
0829 Gastroenterology
0831 General Dentistry
0811 General Medicine
0812 General Surgery
0393 Geography
0729 Geology
1123 Geotechnical Engineering
0829 Geriatric Medicine
0221 Graphic Design

H

0829 Haematology
1311 Hairstyling
0829 Hand Surgery
0852 Health Care (In-patient)
0852 Health Care (Out-patient)
1132 High Voltage Engineering
0395 History
0733 Horticulture
0733 Horticulture & Landscape Management
0516 Hospitality Management
0516 Hotel & Resort Management
1354 Hotel Security
1333 Housekeeping
0512 Human Resource Management
1124 Hydraulics Engineering

I

1172 Industrial & Systems Engineering
1113 Industrial Chemical Technology
0224 Industrial Design
1172 Industrial Engineering
0513 Industrial Management
0421 Information Science
0421 Information Studies
0919 Information Systems Security
0532 Insurance
1041 Intelligent Building Technology

0221 Interactive Media Design
0223 Interior Architecture & Design
0811 Internal Medicine
0511 International Business
0519 International Construction Management
0399 International Relations
0916 Internet Application Development
0916 Internet Computing
0916 Internet Technology

J

0319 Japanese Studies
1229 Jewellery Making
0413 Journalism

K

0552 Keyboarding & Shorthand

L

0399 Labour Studies
1031 Land Surveying
1012 Landscape Architecture
0611 Law
0612 Legal Studies
0421 Library Science
0421 Library Studies
0319 Linguistics
0514 Logistics Management

M

0312 Malay Studies
0912 Management Information Systems
0519 Management of Technology
1332 Management, Accommodation
0799 Management, Analytical Science & Laboratory
0517 Management, Arts & Events
0519 Management, Aviation
1043 Management, Building
1042 Management, Building Construction
1049 Management, Building Contract

0511	Management, Business
0519	Management, Community Services
1049	Management, Construction
0591	Management, E-commerce
0121	Management, Education
1043	Management, Estate
1322	Management, Food & Beverage
0733	Management, Horticulture & Landscape
0516	Management, Hospitality
0516	Management, Hotel & Resort
0512	Management, Human Resource
0513	Management, Industrial
0519	Management, International Construction
0514	Management, Logistics
0898	Management, Medical Laboratory Technology
1355	Management, Occupational Safety
0514	Management, Operations
0512	Management, Personnel
0121	Management, Pre-school Education
1049	Management, Project Coordination Construction
1043	Management, Property
1049	Management, Property & Maintenance
0515	Management, Public & Institution
0532	Management, Risk & Insurance
1355	Management, Safety
0543	Management, Salesmanship & Sales
1351	Management, Security
1341	Management, Shipping
0511	Management, Strategic
0519	Management, Total Quality
0516	Management, Tourism
1349	Management, Transportation
0330	Managerial Economics
1171	Manufacturing Engineering
1341	Marine Crew Training
1161	Marine Engineering
1216	Marine Engineering Mechanics
1341	Maritime Radio Communication
1341	Maritime Studies
1341	Maritime Studies (Shipping Management)
1341	Maritime Transportation
0541	Marketing
0411	Mass Communication
1173	Material Science & Engineering
1173	Materials Engineering
0723	Materials Science

0741	Mathematics
1299	Mechanical & Electrical Drafting & Design
1151	Mechanical & Production Engineering
1293	Mechanical Drafting
1151	Mechanical Engineering
1212	Mechanical Installation & Servicing
1215	Mechanics, Aircraft
1219	Mechanics, Diesel Engine
1216	Mechanics, Marine Engineering
1214	Mechanics, Motor Vehicle
1155	Mechatronics
0898	Medical Laboratory Technology & Management
0811	Medicine
0811	Medicine, Community
0811	Medicine, Emergency
0811	Medicine, Family
0811	Medicine, General
0829	Medicine, Geriatric
0811	Medicine, Internal
0829	Medicine, Nuclear
0811	Medicine, Occupational
0834	Medicine, Oral
0822	Medicine, Paediatric
0811	Medicine, Public Health
0829	Medicine, Rehabilitation
0829	Medicine, Renal
0829	Medicine, Respiratory
0841	Medicine, Veterinary
0544	Merchandising
1191	Metallurgical Engineering
0729	Meteorology
0714	Microbiology
1134	Microelectronics
0731	Molecular Agrobiology
0719	Molecular Biology
0719	Molecular Cell Biology
1214	Motor Vehicle Mechanics
0915	Multi-Media Computing
0221	Multi-Media Design
0915	Multi-Media Software Engineering
0915	Multi-Media System Engineering
0915	Multi-Media Technology
0422	Museum Studies
0212	Music

N

1341	Nautical Studies
1163	Naval Architecture
0829	Neurology
0829	Neurosurgery
0829	Nuclear Medicine
0851	Nursing
0851	Nursing (Critical Care)
0851	Nursing (Emergency)
0851	Nursing (Gerontology)
0851	Nursing (Medical/Surgical)
0851	Nursing (Mental Health)
0851	Nursing (Midwifery)
0851	Nursing (Neuroscience)
0851	Nursing (Oncology)
0851	Nursing (Operating Theatre)
0851	Nursing (Orthopaedics)
0851	Nursing (Paediatrics)
0894	Nutrition and Dietetics

O

0821	Obstetrics & Gynaecology
0811	Occupational Medicine
1355	Occupational Safety Management
0892	Occupational Therapy
0729	Oceanography
0551	Office Skills
1222	Offset Printing
0829	Oncology
0514	Operations Management
0744	Operations Research
0827	Ophthalmology
0896	Optometry
0833	Oral & Maxillo-facial Surgery
0834	Oral Pathology & Oral Medicine
0719	Ornithology
0835	Orthodontics
0826	Orthopaedics
0829	Otorhinolaryngology

P

0822	Paediatric Medicine
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0822	Paediatric Surgery
0836	Paediatrics Dentistry
1050	Painting (Building)
0612	Para-legal Studies
0829	Pathology
0834	Pathology, Oral
0837	Periodontics
0512	Personnel Management
0860	Pharmaceutical Sciences
0829	Pharmacology
0860	Pharmacy
0392	Philosophy
0231	Photography
0722	Physics
0712	Physiology
0891	Physiotherapy
1219	Pipe & Steel Fabrication
1050	Plastering
0829	Plastic Surgery
1112	Plastic Technology
1050	Plumbing & Pipe Fitting
1351	Police Studies & Security Management
0394	Political Science
1112	Polymer Technology
1139	Power Electronics & Control Systems
1132	Power Engineering
1132	Power Plant Engineering
1174	Precision Engineering
1213	Precision Tool Engineering & Design
0121	Pre-school Education Management & Administration
0121	Pre-school Leadership Training
1222	Printing Crafts
1222	Printing Technology
1199	Process Engineering
1111	Process Engineering (Chemical)
0224	Product Design
1171	Production Engineering
1049	Project Co-ordination & Construction Management
1049	Property & Maintenance Management
1043	Property Management
0838	Prosthodontics
0825	Psychiatry
0322	Psychology
0515	Public & Institution Management
1126	Public Health Engineering
0811	Public Health Medicine

0394 Public Policy
0412 Public Relations
0291 Publishing

Q

1175 Quality Assurance Engineering
1175 Quality Engineering & Management
1032 Quantity Surveying

R

0893 Radiation Therapy
0411 Radio Broadcasting
1139 Radio Frequency Engineering
0893 Radiography
0824 Radiology
1092 Real Estate (Valuation)
0399 Regional Studies
0829 Rehabilitation Medicine
0391 Religious Studies
0829 Renal Medicine
0829 Respiratory Medicine
0543 Retail Marketing
0543 Retailing
0829 Rheumatology
0532 Risk & Insurance Management

S

1355 Safety Management
1126 Safety, Health & Environment Engineering
0543 Salesmanship & Sales Management
0799 Science
0551 Secretarial Skills
1351 Security Management
1134 Semiconductor Technology
1161 Ship & Marine Technology
1162 Shipbuilding & Offshoring Engineering
1162 Shipbuilding Engineering
0611 Singapore Law
0399 Social Sciences
0340 Social Work
0321 Sociology
0913 Software Engineering

0729 Soil & Water Science
0893 Sonography
0319 Southeast Asian Studies
0742 Statistics
1199 Steel Structure Technology
0552 Stenography
0511 Strategic Management
0541 Strategic Marketing
1122 Structural Engineering
0828 Surgery, Cardiothoracic
0811 Surgery, General
0829 Surgery, Hand
0833 Surgery, Oral & Maxillo-facial
0822 Surgery, Paediatric
0829 Surgery, Plastic
0912 System Analysis
0912 System Design

T

0314 Tamil Studies
0111 Teacher Training (Art Education)
0111 Teacher Training (Chinese Language)
0112 Teacher Training (Early Childhood Education)
0111 Teacher Training (English Language)
0111 Teacher Training (General)
0111 Teacher Training (Higher Education)
0111 Teacher Training (Home Economics Education)
0111 Teacher Training (Malay Language)
0111 Teacher Training (Mathematics)
0111 Teacher Training (Music Education)
0114 Teacher Training (Physical Education)
0111 Teacher Training (Primary School Teaching)
0111 Teacher Training (Secondary School Teaching)
0113 Teacher Training (Special Education)
0111 Teacher Training (Tamil Language)
0119 Teacher Training (Vocational Subjects)
0411 Television Broadcasting
1224 Textile Production
0213 Theatre Studies
0824 Therapeutic Radiology
1154 Thermal Engineering
1050 Tiling
0519 Total Quality Management
0516 Tourism Management
1334 Tourism Services

1020 Town Planning
9991 Translation & Interpretation
1125 Transportation Engineering
1349 Transportation Systems & Management
1334 Travel Services

U

0893 Ultrasonography
1223 Upholstery
1020 Urban Design
1020 Urban Planning
0829 Urology

V

1092 Valuation (Real Estate)
0841 Veterinary Medicine
0842 Veterinary Support Services
0232 Videography
0340 Vocational Counselling

W

1134 Wafer Fabrication
1126 Water Resources Engineering
1219 Welding
0543 Wholesaling
1133 Wireless Communication

Z

0711 Zoology

WORKING GROUP FOR SSEC

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