

NATIONAL EDUCATION CODE 2020 (NEC-2020)



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Preface

The National Education Code (NEC) serves as a platform to provide a coding system that will enable accurate tracking, assessment and reporting of the education and training programmes as well as programme registrations in Malaysia. It will also further facilitate the statistical reporting at international level, as well as accelerate the process of data integration more effectively towards big data for the education sector to ensure data quality in meeting the needs of international standards.

The Ministry of Higher Education (MoHE) as the leader for higher education in Malaysia that formulates policies on the development of National education, has established the National Education Code (NEC-2020) based on the ISCED Fields of Education and Training 2013 (ISCED-F 2013) produced by United Nations Educational, Scientific and Cultural Organization (UNESCO). The NEC-2020 is the latest revised edition and supersedes the previous NEC 2010 edition. This is in line with the latest changes to the code framework set by UNESCO and adopted as a reference in the international reporting standards.

The review and development of the NEC-2020 was undertaken in collaboration with representatives from the Ministries/agencies as well as other stakeholders through a series of workshops and discussions to enable all the detail fields to be included. Hence, the Division expresses its appreciation for the cooperation of all parties who have contributed to the success of the publication of NEC-2020.

Policy Planning and Research Division,
Ministry of Higher Education Malaysia

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ESTABLISHMENT OF THE NATIONAL EDUCATION CODE 2020

ESTABLISHMENT OF NATIONAL EDUCATION CODE 2020 (NEC-2020)

1. Background

The United Nations Educational, Scientific and Cultural Organization (UNESCO) as an international agency which is responsible for collecting, compiling and analysing cross-national comparable statistics on educational attainment has issued the International Standard Classification of Education (ISCED) 1997 as a standard classification of levels and fields of study to facilitate the statistical reporting by all countries. In 2010, the Inter-Agency Technical Committee (IATC) has given mandate to the Ministry of Higher Education (MoHE) to establish the standard code for education and training in Malaysia. The National Education Code (NEC) was published by MoHE in 2010 and used as a standard code in classifying the field of education and training until now.

In 2014, UNESCO had revised the previous version and published ISCED-F 2013 to improve the new field of study classification. Accordingly, MoHE has revised the current NEC based on ISCED 1997 and adopted the framework and fundamental principles mentioned in ISCED-F 2013. This NEC-2020 is the latest revised edition and supersedes the previous NEC. It is in line with the latest changes on framework code has set by UNESCO and used as a reference in international reporting standards.

The establishment of NEC-2020 has been implemented by MoHE in collaboration with the Malaysian Qualifications Agency (MQA), Professional Bodies, Council of Deans of Public University, Public University, selected Private Higher Education Institutions, training and education provider such as Ministry of Education, Ministry of Human Resources, Ministry of Youth and Sports, Ministry of Rural Development, Ministry of Housing and Local Government, Ministry of Home Affairs, Ministry of Works, Ministry of Finance, Ministry of Tourism, Arts and Culture and Jabatan Kemajuan Islam Malaysia (JAKIM). Subsequently, on 7 July 2021, through *Memorandum Jemaah Menteri*

No. M331/2021, MoHE has been given the mandate to publish the National Education Code entitled National Education Code-2020 (NEC-2020) as a single reference for training and education field of study used by all education and training in Malaysia.

The rapid technological changes and era of industry 4.0 have transformed the landscape of education and training around the world. Therefore, in view that the existing national education and training code could not meet the requirements of study programmes offered by education and training institutions, ministries, and agencies, especially for postgraduate and hybrid programmes, the standardisation of training and education code is necessary. The establishment of NEC-2020 is also instigated to map with Malaysian Occupational Classification Standard Code (MASCO) to facilitate students, graduates, academia as well as industry particularly in job matching involving various programmes and employments. This NEC-2020 could also facilitate the stakeholders in reporting the statistics based on a single source of code as a standard guideline.

2. Objectives of NEC-2020 Manual

The NEC-2020 manual was established to standardise the use of education and training codes between ministries and agencies involved in education and training in Malaysia.

Thus, the NEC-2020 manual will be the source of reference for the classification of education programmes in Malaysia, in line with the International Standard Classification of Education (ISCED-F 2013) as international standard. This includes all education programmes, i.e initial and continuing education, general education and technical & vocational training.

3. Structure of the NEC-2020 Classification

- 2.1 The classification of NEC-2020 using a four-digit hierarchical structure comprising broad field (two digits), narrow field (three digits) and detailed field (four digits). The broad field has the highest levels in NEC-2020 classifying with 12 categories starting from '00' to '99'. Meanwhile, the narrow field (three digits) and detailed field (four digits) are consisting of 59 and 140 categories, respectively.

The structure for classifying the NEC-2020 from broad field to detailed field for 'Engineering, manufacturing and construction' is as follows:

Classification	Title	Code
Broad field	Engineering, manufacturing and construction	07
Narrow field	Manufacturing and processing	072
Detailed field	Food processing	0721

- 2.2 Although NEC-2020 has adopted and adapted the ISCED-2013, some enhancements have been made at the narrow field (three digits) and detailed field (four digits) to suit the field of education and training in Malaysia.

2.3 The differences between the NEC 2010 and NEC-2020 are shown in **Table 1:**

Table 1: The differences between NEC 2010 and NEC-2020

NEC 2010	NEC-2020
0 General programmes	00 Generic programmes and qualifications
1 Education	01 Education
2 Arts and humanities	02 Arts and humanities
3 Social sciences, business and law	03 Social sciences, journalism and information
	04 Business, administration and law
4 Science, mathematics and computing	05 Natural sciences, mathematics and statistics.
	06 Information and communication technologies
5 Engineering, manufacturing and construction	07 Engineering, manufacturing and construction
6 Agriculture and veterinary	08 Agriculture, forestry, fisheries and veterinary
7 Health and welfare	09 Health and welfare
8 Services	10 Services
	99 Field unknown

The detailed comparison of NEC 2010 with NEC-2020 is published on the MoHE website and GREaT portal to facilitate better understanding for users.

GUIDE TO USING OF THE NEC-2020

1. When classifying an educational programme or a group of programmes, look at the overview of the classification on pages 11 to 19. Start by deciding which broad field it should be classified into. Next look at the narrow fields.
2. When you have found an appropriate narrow field, check the description of the field with regard to the subject content of the field on pages 21 to 88 and see which field best corresponds to the programme (programme group) that is to be classified. You may also refer to Appendix A which list the programmes contents in numerical order.
3. Each field description has a list of main subject content of the programmes as specified in the particular field descriptions. Check the list to make sure that classifying programme is in the right code.

Inter-disciplinary, hybrid or broad programmes and qualifications

This section serves to incorporate the criteria governing the classification of programmes as regard to those programmes that have more than one field of education and training. Users are to determine the classification of the inter-disciplinary programmes and broad programmes by following the guidelines and examples given below.

1. Inter-disciplinary, hybrid or broad programmes and qualifications are those which combine several detailed fields of education and training where no single detailed field dominates. Many inter-disciplinary programmes and qualifications cover several narrow or even broad fields. In this classification, the 'leading subject rule' is used to determine the broad field into which the inter-disciplinary study should be classified. That is, the leading subject or subjects determines the (broad) field. The criterion for determining the leading subject(s) is, as before, the share of learning credits or students' intended learning time. Inter-disciplinary programmes should be classified by using '8' at the narrow and detailed field levels (i.e. xx88) within the leading broad field as 'Inter-disciplinary programmes or qualifications involving [the broad field]'. Thus, all inter-disciplinary study with no dominant

subject will be separately identified and, at least, the leading broad field of the programme or qualification will be known.

Example 1: A programme consisting of equal parts (one-third each) of political sciences and public policy (0312), journalism and reporting (0321) and media and communications (0323) should be classified as 0388 ('Inter-disciplinary programmes and qualifications involving social sciences, journalism and information'). If a programme consists of 60% political sciences and public policy, 20% journalism and 20% reporting, it should be classified as 0312 as political sciences and public policy is the dominant subject.

2. Where more than one leading broad field is identified, the inter-disciplinary study should be classified in the broad field listed first in the title (or in the curriculum or syllabus if not listed in the title) of the programme or qualification. Where there is insufficient information to determine the leading subject, the 'first-listed' rule described in the previous sentence should be applied.
3. Programmes or qualifications covering **two or more detailed fields** where one detailed field represents the predominant share of the learning credits or intended learning time should be classified in that detailed field. Thus, if the major share of learning credits or intended learning time is devoted to a single detailed field, the programme/qualification should be classified in that detailed field and not as an inter-disciplinary programme/qualification.

Example 2: A programme majoring in mathematics with a minor in French should be classified as 0541 'Mathematics' as it is the dominant subject.

Example 3: A programme consisting of 40% engineering and engineering trades (071), 30% business and management (041) and 30% languages (023) should be classified as 0788 ('Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction') as no field predominates but 07 is the leading broad field. If engineering and business were equally important and greater than languages (e.g. 40%, 40% and 20%), the programme would be classified as either 0788 or 0488 depending on which programme, engineering and engineering trades (071) or business and management (041), is listed first in the programme title (or, if not in the title, in the curriculum or syllabus).

Example 4: A programme consisting of 40% history and archaeology (0222), 30% economics (0311) and 30% political sciences and public policy (0312) would be classified as 0388 ('Inter-disciplinary programmes and qualifications involving social sciences, journalism and information') as economics and politics are in the same broad field.

4. Programmes and qualifications aimed at one specific vocational field consisting also of subsidiary subjects from other fields are not considered as inter-disciplinary programmes or qualifications and should be classified according to the specific vocational field.

Example 5: In a programme in electrical installation, more time may be devoted to subsidiary subjects (language, mathematics, natural sciences, etc.) than the intended vocational subject. However, this programme should be classified as 0712 'electricity and energy' and not as an inter-disciplinary programme.

5. The 'leading subject rule' is the only feasible solution for classifying inter-disciplinary programmes and qualifications as long as only one code can be assigned as is recommended in this manual.

Not further defined and not elsewhere classified

1. Two common situations need to be addressed within the classification of fields of education and training when coding programmes or qualifications in specific data collections:
 - a. Cases where there is no further information about a given programme or qualification than that known at a higher level of the classification. These are known as cases which are 'not further defined' and are designated by the use of one or more '0' at the end of codes at the narrow or detailed fields hierarchical levels of the classification (as appropriate).

Example 6: A programme in education where **more information is not available** should be classified as 0110 'Education not further defined' (i.e Master in Education). Such cases should not be considered as inter-disciplinary or broad programmes.

Example 7: A programme in services where more information is not available should be classified as 1000 ‘Services not further defined’.

- b. Cases where the particular detailed field is known and adequately described but is not explicitly provided for in the classification. These are known as cases which are ‘not elsewhere classified’ and are designated by the use of ‘9’ at the detailed field level of the classification (i.e. as the last digit).

Example 8: A programme in a new field in ICTs which does not belong to any of the other detailed fields should be classified as 0619 ‘Information and communication technologies not elsewhere classified’.

- 2. It can be difficult to differentiate the use of “0”, “8” and “9”. **Table 1** can facilitate for better understanding.

Table 1: Supplementary codes

Code	Name	Use
0	Not further defined	No further information than is known at a higher level of the classification
8	Inter-disciplinary programmes or qualifications	Programmes or qualifications with no dominant detailed field
9	Not elsewhere classified	The detailed field is known but not provided for in the classification

- 3. During data collection, where the field of study is completely unknown, a code of ‘9999’ can be assigned or, in surveys which are limited to the narrow or broad field levels only, ‘999’ or ‘99’ respectively.

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FIELDS DESCRIPTION OF NATIONAL EDUCATION CODE 2020 (NEC-2020)

List of the National Education Code 2020

Broad Field	Narrow Field	Detailed Field
00 Generic programmes and qualifications	000 Generic programmes and qualifications not further defined	0000 Generic programmes and qualifications not further defined
	001 Basic programmes and qualifications	0011 Basic programmes and qualifications
	002 Literacy and numeracy	0021 Literacy and numeracy
	003 Personal skills	0031 Personal skills
	009 Generic programmes and qualifications not elsewhere classified	0099 Generic programmes and qualifications not elsewhere classified
01 Education	011 Education	0110 Education not further defined
		0111 Education science
		0112 Training for pre-school teachers
		0113 Educator training without subject specialisation
		0114 Educator training with subject specialisation
		0119 Programmes and qualifications involving education not elsewhere classified

Broad Field	Narrow Field	Detailed Field
	018 Inter-disciplinary programmes and qualifications involving education	0188 Inter-disciplinary programmes and qualifications involving education
02 Arts and humanities	020 Arts and humanities not further defined	0200 Arts and humanities not further defined
	021 Arts	0211 Audio-visual techniques and media production
		0212 Fashion, interior and industrial design
		0213 Fine arts
		0214 Craft skills
		0215 Music and performing arts
		0216 Film, television and screen studies
		0219 Arts not elsewhere classified
	022 Humanities (except languages)	0221 Religion and theology
		0222 History and archaeology
		0223 Philosophy and ethics
		0224 Islamic studies
		0229 Humanities (except languages) not elsewhere classified
	023 Languages	0231 Language acquisition
		0232 Literature and linguistics
		0233 National language
0239 Languages not elsewhere classified		

Broad Field	Narrow Field	Detailed Field
	028 Inter-disciplinary programmes and qualifications involving arts and humanities	0288 Inter-disciplinary programmes and qualifications involving arts and humanities
	029 Arts and humanities not elsewhere classified	0299 Arts and humanities not elsewhere classified
03 Social sciences, journalism and information	030 Social sciences, journalism and information not further defined	0300 Social sciences, journalism and information not further defined
	031 Social and behavioural sciences	0311 Economics
		0312
		0313 Psychology
		0314 Sociology and cultural studies
		0319 Social and behavioural sciences not elsewhere classified
	032 Journalism, information and communication	0321 Journalism and reporting
		0322 Library, information and archival studies
0323 Media and communication		
0329 Journalism, information and communication not elsewhere classified		
038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information	0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information	
039 Social sciences, journalism and information not elsewhere classified	0399 Social sciences, journalism and information not elsewhere classified	
04 Business, administration and law	040 Business, administration and law not further defined	0400 Business, administration and law not further defined
	041 Business and management	0411 Accounting, auditing and taxation

Broad Field	Narrow Field	Detailed Field
		0412 Finance, banking and insurance
		0413 Islamic banking and finance
		0414 Management and administration
		0415 Marketing and advertising
		0416 Secretarial and office studies
		0417 Work skills
		0419 Business and administration not elsewhere classified
05 Natural sciences, mathematics and statistics	042 Law	0421 Law
	048 Inter-disciplinary programmes and qualifications involving business, administration and law	0488 Inter-disciplinary programmes and qualifications involving business, administration and law
	049 Business, administration and law not elsewhere classified	0499 Business, administration and law not elsewhere classified
	050 Natural sciences, mathematics and statistics not further defined	0500 Natural sciences, mathematics and statistics not further defined
	051 Biological and related sciences	0511 Biology
		0512 Biochemistry
		0519 Biological and related sciences not elsewhere classified
	052 Environment	0521 Environmental sciences
		0522 Natural environments and wildlife
		0529 Environment not elsewhere classified
053 Physical sciences	0531 Chemistry	
	0532 Earth sciences	
	0533 Physics	

Broad Field	Narrow Field	Detailed Field
		0539 Physical sciences not elsewhere classified
	054 Mathematics and statistics	0540 Mathematics and statistics not further defined
		0541 Mathematics
		0542 Statistics
	058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics	0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics
059 Natural sciences, mathematics and statistics not elsewhere classified	0599 Natural sciences, mathematics and statistics not elsewhere classified	
06 Information and communication technologies	061 Information and communication technologies	0610 Information and communication technologies (ICTs) not further defined
		0611 Information technology and information system
		0612 Software engineering
		0613 Computer science
		0614 Computer use
	0619 Information and communication technologies (ICTs) not elsewhere classified	
068 Inter-disciplinary programmes and qualifications involving information and communication technologies	0688 Inter-disciplinary programmes and qualifications involving information and communication technologies	
07 Engineering, manufacturing and construction	070 Engineering, manufacturing and construction not further defined	0700 Engineering, manufacturing and construction not further defined
	071 Engineering and engineering trades	0711 Chemical engineering and processes
		0712 Electricity and energy

Broad Field	Narrow Field	Detailed Field
		0713 Electronics and automation
		0714 Mechanics and metal trades
		0715 Motor vehicles, ships and aircraft
		0716 Civil engineering
		0717 Environmental protection technology
		0719 Engineering and engineering trades not elsewhere classified
	072 Manufacturing and processing	0721 Food processing
		0722 Materials (glass, paper, plastic and wood)
		0723 Textiles (clothes, footwear and leather)
		0724 Mining and extraction
		0729 Manufacturing and processing not elsewhere classified
	073 Architecture, surveying and town planning	0731 Architecture
		0732 Urban and regional planning
		0733 Building and construction
		0734 Surveying
074 Engineering technology	0741 Engineering technology	
078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction	0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction	
079 Engineering, manufacturing and construction not elsewhere classified	0799 Engineering, manufacturing and construction not elsewhere classified	
08 Agriculture, forestry, fisheries and veterinary	080 Agriculture, forestry, fisheries and veterinary not further defined	0800 Agriculture, forestry, fisheries and veterinary not further defined

Broad Field	Narrow Field	Detailed Field
	081 Agriculture	0811 Crop and livestock production 0812 Horticulture 0819 Agriculture not elsewhere classified
	082 Forestry	0821 Forestry
	083 Fisheries	0831 Fisheries
	084 Veterinary	0841 Veterinary
	088 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary	0888 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary
	089 Agriculture, forestry, fisheries and veterinary not elsewhere classified	0899 Agriculture, forestry, fisheries and veterinary not elsewhere classified
	09 Health and welfare	090 Health and welfare not further defined
091 Health		0911 Dental studies
		0912 Medicine
		0913 Nursing, midwifery and medical assistance
		0914 Medical diagnostic and treatment technology
		0915 Therapy and rehabilitation
		0916 Pharmacy
		0917 Traditional and complementary medicine and therapy
0919 Health not elsewhere classified		
092 Welfare		0921 Care of elderly and of disabled adults

Broad Field	Narrow Field	Detailed Field
		0922 Child care and youth services
		0923 Social work and counselling
		0929 Welfare not elsewhere classified
	098 Inter-disciplinary programmes and qualifications involving health and welfare	0988 Inter-disciplinary programmes and qualifications involving health and welfare
	099 Health and welfare not elsewhere classified	0999 Health and welfare not elsewhere classified
10 Services	100 Services not further defined	1000 Services not further defined
	101 Personal services	1011 Domestic services
		1012 Hair and beauty services
		1013 Hotel, restaurants and catering
		1014 Sports
		1015 Travel, tourism and leisure
		1019 Personal services not elsewhere classified
	102 Hygiene and occupational health services	1021 Community sanitation
		1022 Occupational health and safety
		1029 Hygiene and occupational health services not elsewhere classified
	103 Security services	1031 Military and defence
		1032 Protection of persons and property
		1039 Security services not elsewhere classified
	104 Transport services	1041 Transport services
	108 Inter-disciplinary programmes and qualifications involving services	1088 Inter-disciplinary programmes and qualifications involving services

Broad Field	Narrow Field	Detailed Field
	109 Services not elsewhere classified	1099 Services not elsewhere classified
99 Field unknown	999 Field unknown	9999 Field unknown

00 GENERIC PROGRAMMES AND QUALIFICATIONS

Generic programmes and qualifications are those providing fundamental and personal skills education which cover a broad range of subjects and do not emphasise or specialise in a particular broad or narrow field.

This broad field should not be used as a residual category. Programmes and qualifications with a specific subject emphasis should be classified in broad fields 01 to 10. Education at the tertiary level should only by way of exception be classified here.

001 Basic programmes and qualifications

0011 Basic programmes and qualifications

Basic programmes and qualifications are designed to provide participants with fundamental skills in reading, writing and arithmetic along with an elementary understanding of other subjects such as history, geography, natural science, social science, art and music, and in some cases religious instruction. These programmes and qualifications are normally offered at primary and lower secondary levels. Broad, non-specialised programmes at upper secondary level are also classified here even if there is some concentration on, for example, humanities, social science, natural science etc. Vocational programmes and qualifications are included here only by way of exception.

Programmes and qualifications with the following main subject content are classified here:

Content
Basic programmes and qualifications
Broad, generic (non-specialised) programmes and qualifications
General programmes and qualifications with no specific subject emphasis
Programmes and qualifications at primary level

Inclusions

Basic programmes and qualifications at upper secondary level (in some countries at lower secondary level) with some emphasis on programme e.g. humanities, social sciences or natural sciences but still covering other fields of knowledge are included in this detailed field. In some countries such programmes or qualifications are offered on a modular basis and should also be classified here.

Exclusions

Programmes that are considered as general in the programme orientation sense (non-vocational) but have a clear emphasis on a detailed, narrow or broad field are excluded from this detailed field and included in one of the broad fields 01 to 10, depending on the subject covered.

002 Literacy and numeracy

0021 Literacy and numeracy

Literacy and numeracy are programmes or qualifications arranged mainly for adults, designed to teach fundamental skills in reading, writing and arithmetic. The typical age range of participants can be used to distinguish between detailed field 0011 'Basic programmes and qualifications' and this detailed field.

Programmes and qualifications with the following main content are classified here:

Content
Basic remedial programmes for youth or adults Literacy Numeracy

003 Personal skills

0031 Personal skills

Personal skills are defined by reference to the effects on the individual's capacity (mental, social etc.). This detailed field covers personal skills programmes not included in 0011 'Basic programmes and qualifications' or 0021 'Literacy and numeracy', giving key competencies and transferable skills.

Programmes and qualifications with the following main content are classified here:

Content
Argumentation and presentation Assertiveness training Communication skills Co-operation Development of behavioural capacities Development of mental skills Job-seeking programmes Parenting courses Public speaking Self-esteem skills Social competence Time management

Inclusions

Education and training in leadership in the context of personal development is included here.

Education and training related to the work place or to work assignments is included in this detailed field if it has more to do with personal development than work development. Personal skills courses can be taught at the workplace, but still be classified here based on their content.

Programmes for people with special needs on how to cope with their daily life are included here.

Exclusions

Study of leadership in the context of management is excluded from this group and included in detailed field 0414 'Management and administration'.

01 EDUCATION

011 Education

0111 Education science

Education science is the study of the learning process and the theories, methods and techniques of imparting knowledge to others.

Programmes and qualifications with the following main content are classified here:

Content
Curriculum studies
Didactics
Educational assessment, testing and measurement
Educational evaluation and research
Pedagogical sciences

Exclusions

Teacher training programmes which combine education science with the practice of teaching are excluded from this detailed field and included in one of the detailed fields for teacher training (0112-0114).

0112 Training for pre-school teachers

Training for pre-school teachers is the study of the theories, methods and practice of teaching very young children up to 7 years of age within formal school settings at pre-primary or early childhood educational development levels.

Programmes and qualifications with the following main content are classified here:

Content
Early childhood teaching (within formal school settings)
Pre-primary teacher training

Exclusions

Training in caring for children outside formal school settings is excluded from this detailed field and included in detailed field 0922 "Childcare and youth services".

0113 Educator training without subject specialisation

Training for educator (teacher, instructor, tutor etc) without subject specialisation is the study of the theories, methods and practice of providing children between approximately 5 to 15 years of age with the fundamental skills in reading, writing and mathematics along with an elementary understanding of other subjects such as history, geography, social science etc. and laying the foundation for lifelong learning. Subject specialisation is stressed less than in detailed field 0114 'Educator training with subject specialisation'. The study of teaching children with special needs is included in this detailed field, likewise the study of teaching adults fundamental reading and writing skills and teaching immigrants these types of skills in their home or first language.

Programmes and qualifications with the following main content are classified here:

Content
Class teacher training
Indigenous teacher training
Primary teaching
Teacher training for children with special needs

Inclusions

The study of teaching adults' basic literacy and numeracy skills, and teacher's aide (teaching assistant) are included.

Exclusions

Teacher training with subject specialisation even if intended for the teaching of children in primary or lower secondary education is excluded from this detailed field and included in detailed field 0114 'Educator training with subject specialisation'.

0114 Educator training with subject specialisation

Educator training with subject specialisation is the study of the theories, methods and practice of teaching a specific subject, mostly at secondary or higher levels of education and Technical and Vocational Education and Training (TVET) institutions. Programmes and qualifications included in this detailed field often comprise both studies as well as the subject/subjects that are going to be taught.

Programmes and qualifications with the following main content are classified here:

Content
Educator training - arts and crafts
Educator training - commercial subjects
Educator training - music
Educator training - nursing
Educator training - physical training
Educator training - second languages
Educator training - specific theoretical subjects, e.g. English, mathematics, history
Educator training - technical and vocational
Educator training - foreign/ international languages
Educator training - e-learning content development and delivery
Training of driving instructors
Training of trainers

Inclusions

Educator training courses for teaching staff of higher education institutions, instructors of TVET institutions, instructors of workplace and working life skills and in practical and artistic subjects are included here.

Exclusions

Training of sports trainers is excluded from this detailed field and included in detailed field 1014 'Sports'.

018 Inter-disciplinary programmes and qualifications involving education

0188 Inter-disciplinary programmes and qualifications involving education

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to education are classified here.

02 ARTS AND HUMANITIES

021 Arts

0211 Audio-visual techniques and media production

Audio-visual techniques and media production is the study of techniques and skills to produce books or newspapers, radio or TV production, recorded music production and graphic reproduction. It includes programmes and qualifications in methods of colour reproduction, photography and computer graphics. Study of combining pictures, words and decorations in the production of books, magazines, posters, adverts etc. is also included.

Programmes and qualifications with the following main content are classified here:

Content
Animation
Bookbinding
Camera operating
Compositing (printing)
Computer game production
Computer type-setting
Graphic design
Graphic reproduction
Illustration
Interactive media design
Media techniques
Multimedia production
Photography
Pre-press operations
Print finishing and binding
Printing
Publishing design, lay-out
Radio and TV production
Recorded music production
Sound techniques
Type-setting

Inclusions

Desktop publishing and lay-out are included here.

Exclusions

Programmes and qualifications in the use of specific software applications for desktop publishing and website development are excluded from this detailed field and included in detailed field 0614 'Computer use'.

Study of journalism (wording and content of messages) is excluded from this detailed field and included in detailed field 0321 'Journalism, reporting and communication'.

0212 Fashion, interior and industrial design

Fashion, interior and industrial design is the study of creatively combining line, form, and fabric in designing and constructing e.g., fashion garments, industrial products and interiors.

Programmes and qualifications with the following main content are classified here:

Content
Costume design
Design of industrial products
Fashion design
Industrial design (artistry)
Interior design
Stage designing
Window dressing

Exclusions

Study of building design is excluded from this detailed field and included in detailed field 0731 'Architecture'.

Study of Industrial design is excluded from this detailed field if emphasis is given to technical subjects and not to artistic design and included in the appropriate narrow field under 071 'Engineering and engineering trades'.

Publishing design and graphic design are excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

0213 Fine arts

Fine arts is the study of visual forms of creative expression, dealing with theory, history, techniques, performance and production in fine arts.

Programmes and qualifications with the following main content are classified here:

Content
Art theory
Calligraphy
Etching
Fine art printmaking
History of art
Painting
Philosophy of art
Sculpture

Exclusions

Training in ceramics, pottery etc is excluded from this detailed field and included in detailed field 0214 'Craft skills'.

Study of architecture is excluded from this detailed field and included in detailed field 0731 'Architecture'.

Teacher training in arts is excluded from this detailed field and included in detailed field 0114 'Educator training with subject specialisation'.

0214 Craft skills

Craft skills is the study of techniques and skills in a chosen craft, such as jewellery, pottery, weaving, woodcarving etc.

Programmes and qualifications with the following main content are classified here:

Content
Ceramics
Crafts, folk arts and artisan
Decorative metal crafts
Indigenous crafts
Embroidery
Fibre arts
Floristry (flower arranging)
Glass arts and craft
Goldsmithing
Handicrafts
Jewellery
Making of musical instruments (not industrial)
Musical instruments (repairing and tuning)
Silversmithing
Stone carving
Textile arts
Weaving arts
Woodcarving

Exclusions

Study of industrial (large scaled mechanised) production of pottery, woven materials, embroidery etc. is excluded from this field and included in one of the detailed fields under broad field 07 'Engineering, manufacturing and construction'.

0215 Music and performing arts

Music and performing arts is the study of the principles and techniques associated with performance involving music, speech, movement, mime, characterisation, improvisation and stage craft.

Programmes and qualifications with the following main content are classified here:

Content
Acting and directing
Ballet
Choreography
Circus
Composition (music)
Conducting (music)
Creative and performance art (including production)
Dance
Drama
History of film and theatre
History of music
Music
Musicology
Theatre/theatre sciences

Inclusions

Study of music and performing arts history and theory is included here.

Exclusions

Teacher training in music and other performing arts is excluded from this detailed field and included in detailed field 0114 'Educator training with subject specialisation'.

0216 Film, television and screen studies

Film, television and screen studies is the study of the moving image. It involves the critical analysis of moving images in the form of films, television shows and other types of on-screen media (such as online films and videos) and understanding their place within broader social and historical contexts.

Programmes and qualifications with the following main content are classified here:

Content
Cinema studies
Film studies
Film and video production
Moving image studies
Screen studies
Television studies

022 Humanities (except languages)

0221 Religion and theology

Religion and theology is the study of religious beliefs, concepts, symbols, expressions and texts of spirituality except for Islamic studies.

Programmes and qualifications with the following main content are classified here:

Content
Religious history
Study of sacred books
Study of different religions
Theology

Inclusions

Included in this detailed field are programmes for children and young people, usually given in religious schools or seminars, in monasteries etc., aiming to develop an interest in the tenets of their religion and sufficient familiarity with its philosophy to assist in the propagation of their faith.

Exclusions

Basic programmes given in religious schools, seminars etc. containing religious instruction but not emphasising it or leading to a religious vocation, are excluded from this detailed field and included in 0011 'Basic programmes and qualifications'. Islamic sharia programmes and qualifications are excluded from this detailed field and included in detailed field 0421 'Law'. Islamic studies are excluded from this detailed field and included in detailed field 0224 'Islamic studies'

0222 History and archaeology

History is the study of past events, especially the political, social and economic development of a country, a continent or the world. History of medicine is classified here, likewise the study of history of science and ideas. **Archaeology** is the study of ancient civilisations by scientific analysis of what is found in the ground.

Programmes and qualifications with the following main content are classified here:

Content
Archaeology
Cultural history
Folklore studies
History
History of literature
History of medicine
History of science and ideas
History of technology

Inclusions

Restoration and preservation of artistic heritage are included here.

Exclusions

Study of literature combined with study of a specific language is excluded from this detailed field and included in detailed field 0232 'Literature and linguistics'.

Study of classical languages (Latin etc.) is excluded from this detailed field and included in detailed field 0231 'Language acquisition'.

Study of History of art is excluded from this detailed field and included in detailed field 0213 'Fine arts'.

Study of Music and performing arts history is excluded from this detailed field and included in detailed field 0215 'Music and performing arts'.

Study of Economic history is excluded from this detailed field and included in detailed field 0311 'Economics'.

0223 Philosophy and ethics

Philosophy and ethics is the study of philosophy, ethics and related subjects dealing with the conception of life.

Programmes and qualifications with the following main content are classified here:

Content
Ethics
Logic
Morals
Philosophy

Exclusions

Study of religion is excluded from this detailed field and included in detailed field 0221 'Religion and theology'.

Study of Philosophy of arts is excluded from this detailed field and is included in detailed field 0213 'Fine arts'.

0224 Islamic studies

Islamic studies are the study of Islamic beliefs, concepts and spirituality.

Programmes and qualifications with the following main content are classified here:

Content
Al-Quran and hadith
Aqidah
Da'wah and usuluddin
Falaq syarie
<i>Fiqh and usul fiqh</i>
Fatwa
Islamic Civilisation
Islamic Philosophy
Islamic science
Qada' and siyasah syar'iyah

Inclusions

Included in this detailed field are programmes for children and youth studying in Islamic Institutions (Tahfiz Centre).

Exclusions

Islamic sharia programmes and qualifications are excluded from this detailed field and included in detailed field 0421 'Law'. Falaq (astronomy) are excluded from this detailed field and included in detailed field 0533 'Physics'.

023 Languages

0231 Language acquisition

Language acquisition is the study of the structure and composition of languages taught as second or foreign languages (that are intended for non-native or non-fluent speakers of the language). It includes the study of related cultures, literature, linguistics and phonetics if related to the specific language being acquired and forms part of the same programme or qualification. Classical or dead languages are included here as it is assumed there are no native speakers of the language and hence the manner of teaching and the content of the curriculum are more similar to the teaching of foreign languages.

Programmes and qualifications with the following main content are classified here:

Content
Classical languages
English literature
Exogenous languages
Foreign languages
Interpretation
Second languages, for example English as a second language
Sign language
Translation

Inclusions:

Language and linguistics studies are included here if the linguistics are related to a specific language or languages being acquired and forming part of the same programme or qualification. Translation and interpretation are included here.

Exclusions:

The study of the mother tongue or first language (i.e. that are intended for native, fluent or competent speakers of the language), even if this language is not a national language of the country of study (e.g. programmes for immigrants learning their mother tongue) are excluded from this detailed field and included in detailed field 0232 'Literature and linguistics'.

0232 Literature and linguistics

Literature and linguistics is here defined as the study of language (s) intended for native, fluent or competent speakers of the language. It includes the study of related literature and linguistics and may or may not include the structure and composition of the language.

Programmes and qualifications with the following main content are classified here:

Content
Applied comparative linguistics
Children's literature
Classical and medieval literature
Comparative literature
Creative writing
Discourse studies
First language
Indigenous languages (i.e. Kadazan, Iban, Orang Asli)
Linguistics
Language and linguistics
Literature
"Mother tongue" languages (i.e. Mandarin, Tamil)
Native first languages
Phonetics
World literature

Inclusions

Languages **taught as the first language ("mother tongue")**, even if the language is not the national language of the country of study (e.g. programmes for immigrants in their home or first language) are included here. Local and regional languages are included here if they are first languages spoken by a significant minority in the country and are intended for at least competent speakers of the language.

Study of comparative literature is included here. Study of general linguistics (not related to the study of a particular language) is included here. Study of literature in general (not combined with study of a special language) is included here.

Exclusions

Language programmes are excluded from this detailed field if the language is taught as a foreign or a second language and are then included in 0231 'Language acquisition'.

Programmes in literacy and numeracy are excluded from this detailed field and included in detailed field 0021 'Literacy and numeracy'.

Sign language programmes are excluded from this detailed field and included in detailed field 0231 'Language acquisition'.

0233 National language

National language is the study of Malaysian Language according to the Federal Constitution. It includes the structure and composition of the language.

Programmes and qualifications with the following main content are classified here:

Content
Malay language studies
Contemporary Malay language studies
Malay grammar

Exclusions

Language programmes are excluded from this detailed field if the language is taught as a foreign or a second language and are then included in 0231 'Language acquisition'.

Programmes in literacy and numeracy are excluded from this detailed field and included in detailed field 0021 'Literacy and numeracy'.

Sign language programmes are excluded from this detailed field and included in detailed field 0231 'Language acquisition'

Malay Literature are excluded in this detailed field and included in detailed field 0232 'Literature and linguistics'.

028 Inter-disciplinary programmes and qualifications involving arts and humanities

0288 Inter-disciplinary programmes and qualifications involving arts and humanities

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to arts and humanities are classified here.

03 SOCIAL SCIENCES, JOURNALISM AND INFORMATION

031 Social and behavioural sciences

0311 Economics

Economics is the study of economic policy, economic theory and economic decision making.

Programmes and qualifications with the following main content are classified here:

Content
Econometrics
Economic history
Economics
Political economics

Exclusions

Study of economics where emphasis is given to business studies is excluded from this narrow field and classified under 041 'Business and management'. Study of home economics is excluded from this detailed field and included in the detailed field 1011 'Domestic services'.

0312 Political sciences and public policy

Political sciences and public policy is the study of national and international politics involving governments, states and non-state actors acting on local, national and global issues and problems. The study of the rights and duties of citizens are included here.

Programmes and qualifications with the following main content are classified here:

Content
Civics
Environmental politics
Global governance
Human rights
International political economy
International relations
Migration studies
Peace and conflict studies
Political history
Political science
Public policy studies
Regionalism
Social movements
Urbanisation

Exclusions

Study of political economics is excluded from this detailed field and included in the detailed field 0311 'Economics'.

0313 Psychology

Psychology is the study of the human mind and behaviour as a result of individual differences, experience and environment.

Programmes and qualifications with the following main content are classified here:

Content
Cognitive science
Psychoanalysis
Psychology
Psychotherapy
Educational psychology
Developmental psychology
Industrial psychology
Sports psychology
Neuropsychology

0314 Sociology and cultural studies

Sociology and cultural studies is the study of human beings and the way they behave in groups and in relation to society. The study of ethnology, social anthropology and gender issues are included here, likewise the study of human and social geography.

Programmes and qualifications with the following main content are classified here:

Content
Criminology
Cultural geography
Cultural studies
Demography/population studies
Ethnology
Gender studies
Social anthropology
Sociology

Exclusions

Social welfare where emphasis is given to practical social work is excluded from this detailed field and included in detailed field 0923 'Social work and counselling'.

Physical geography is excluded from this detailed field and included in detailed field 0532 'Earth sciences'.

032 Journalism, information and communication

0321 Journalism and reporting

Journalism and reporting is the study of the theory and practices of journalism/reporting. Journalism and reporting is referred to the wording and content of messages. It comprises news reporting, writing commentaries and feature stories of public interest.

Programmes and qualifications with the following main content are classified here:

Content
Broadcast journalism
Editing
Information (wording and content)
Journalism
News reporting

Exclusions

Study of techniques for mass communication (e.g. printing and radio/TV production) is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Study of lay-out and publishing design is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Study of public relations is excluded from this detailed field and included in detailed field 0415 'Marketing and advertising'.

0322 Library, information and archival studies

Library, information and archival studies is the study of the methods of selecting, acquiring, organizing and storing collections of information, and facilitating the use of information. Museum and library studies are included here.

Programmes and qualifications with the following main content are classified here:

Content
Archival sciences
Curatorial studies
Documentation
Information science
Library studies
Museum documentation
Museum studies
Museology

Exclusions

Restoration and preservation of artistic heritage are excluded from this detailed field and included in detailed field 0222 'History and archaeology'.

0323 Media and communication

Media and communication is the study of media industries, technologies, texts and audiences.

Programmes and qualifications with the following main content are classified here:

Content
Communication
Digital media
Mass communication
Media studies
Public relations

038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to social sciences, journalism and information are classified here.

04 BUSINESS, ADMINISTRATION AND LAW

041 Business and management

0411 Accounting, auditing and taxation

Accounting, auditing and taxation is the study of maintaining, auditing and recording financial transactions.

Programmes and qualifications with the following main content are classified here:

Content
Accounting
Auditing
Bookkeeping
Business taxation
Cost and management accountancy
Financial reporting
Insolvency
Tax accounting
Tax management

Exclusions

Study of tax laws is excluded from this detailed field and included in detailed field 0421 'Law'.

0412 Finance, banking and insurance

Finance, banking and insurance is the study of planning, directing, organizing and controlling financial activities and services. It includes the control and monitoring of the financial resources of organizations, institutions and individuals, and the provision of financial services at the corporate and individual level.

Programmes and qualifications with the following main content are classified here:

Content
Bank teller studies
Banking and finance
Corporate finance
Financial management
Financial risk
Financial theory
Insurance
Investment analysis

Investments and securities Pension insurance Social insurance Stock-broking
--

Exclusions

Study of actuarial science is excluded from this detailed field and included in detailed field 0542 'Statistics'.

0413 Islamic banking and finance

Islamic banking and finance is the study of planning, directing, organizing and controlling financial activities and services according to Syariah (Islamic Law). It includes the control and monitoring of the financial resources of organizations, institutions and individuals, and the provision of financial services at the corporate and individual level.

Programmes and qualifications with the following main content are classified here:

Content
Islamic banking and finance Islamic commerce Mu'amalat Takaful

Exclusions

Study of Halal Industry Management is excluded from this detailed field and included in detailed field 0414 'Management and administration'.

0414 Management and administration

Management and administration is the study of planning, directing and operating the functions and activities of organizations and institutions. Programmes in management also including administration, economics, finance etc. are included here if emphasis is given to management and administration.

Programmes and qualifications with the following main content are classified here:

Content
Administration
Change management
Educational management
Employment management
Entrepreneurship
General business
Halal industry management
Health administration
Human resource management
International business
Logistic management
Management science
Management studies
Office management
Organizational theory and behaviour
Personnel administration
Personnel management
Project management
Strategic management
Supply chain management
Training management
Wholesale and retailing management

Inclusions:

Study of leadership in the context of management is included here.

Exclusions:

Training in leadership in the context of personal development is excluded from this detailed field and included in detailed field 0031 'Personal skills'.

Study of administration in the meaning of office work is excluded from this detailed field and included in detailed field 0416 'Secretarial and office studies'.

Real estate valuation and management is excluded from this detailed field and included in detailed field 0734 'Surveying'.

0415 Marketing and advertising

Marketing and advertising is the study of promoting the exchange processes of goods and services between organizations and/or individuals, and the study of consumer behaviour and requirements. It includes the study of the role of product development, pricing, distribution, promotion and sales in order to maximise business performance.

Programmes and qualifications with the following main content are classified here:

Content
Advertising
Consumer behaviour
Franchising
Market research
Marketing
Merchandising
Digital business and marketing
Public relations

0416 Secretarial and office studies

Secretarial and office studies is the study of administrative procedures and practices, office technology and clerical, shorthand and keyboard skills. Specialised secretarial programmes (bilingual, medical, law, accounting etc.) are included if the programme has secretarial work as its objective, rather than work as specialised assistants.

Programmes and qualifications with the following main content are classified here:

Content
Administrative and secretarial services
Clerical programmes
Data entry
Foreign language secretary programmes
Keyboard skills
Legal secretary programmes
Medical secretary programmes
Operation of office equipment
Receptionist training
Secretarial programmes
Stenography
Switchboard operating

Inclusions

Broad secretarial programmes comprising among other things computer courses are included here.

Exclusions

Separate programmes or qualifications in using a specific computer software are excluded from this detailed field and included under detailed field 0614 'Computer use'.

Office management is excluded from this detailed field and included in detailed field 0414 'Management and administration'.

Hotel receptionist programmes are excluded from this detailed field and included in detailed field 1013 'Hotel, restaurants and catering'.

0417 Work skills

Work skills is the study of the structure and function of working life. It comprises programmes, mainly given as staff training, related to the working place and to work assignments.

Programmes and qualifications with the following main content are classified here:

Content
Clients' needs
Company knowledge
Conflict management
Corporate social responsibility and business ethics
Customer service training
Industrial relations
'Introduction to work' courses
Managing diverse workforce
Organization at work
Quality assurance
Training and development
Work development

Inclusions

Staff training related to the work place or work assignments is included here.

Exclusions

Training related to the work place or work assignments is excluded from this detailed field if it has more to do with personal development than work development and is included in detailed field 0031 'Personal skills'.

Staff training which can be classified to any other field is excluded from this narrow field and included in the appropriate field (e.g. quality courses should, if technical, be included in the narrow field-under 071 'Engineering and engineering trades'.

Programmes in work environment should be included in detailed field 1022 'Occupational health and safety'.

Programmes, mostly at tertiary level, dealing with working life in general in terms of the labour market, the social partners, industrial psychology etc. are excluded from this narrow field and included in the narrow field-under 031 'Social and behavioural sciences.

042 Law

0421 Law

Law is the study of the principles and procedures for formally maintaining social order, including training for legal professions such as advocate or training for the judicial bench.

Programmes and qualifications with the following main content are classified here:

Content
Banking law
Commercial law
Criminal justice studies
Competition law
History of law
Indigenous law
International trade law
Jurisprudence
Labour law
Legal practice
Notary/Notary's practise
Paralegal studies
Syariah law
Taxation law

Exclusions

Court reporting programmes and legal secretary programmes are excluded from this detailed field and included in detailed field 0416 'Secretarial and office studies'.

Police studies are excluded from this detailed field and included in detailed field 1032 'Protection of persons and property'.

048 Inter-disciplinary programmes and qualifications involving business, administration and law

0488 Inter-disciplinary programmes and qualifications involving business, administration and law

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to business, administration and law are classified here.

Inclusion

Study of business and management where emphasis is not given towards any of the narrow field under 041 is included in this field.

Exclusion

Business programmes where emphasis is given to any of the narrow field under 041 'Business and management' (administration, marketing etc.) should be classified according to the specialisation.

05 NATURAL SCIENCES, MATHEMATICS AND STATISTICS

051 Biological and related sciences

0511 Biology

Biology is the study of the structure, function, reproduction, growth, evolution and behaviour of all living organisms.

Programmes and qualifications with the following main content are classified here:

Content
Applied biology (inclusive of agrobiology, entomology, aquatic biology, biodiversity, conservation biology, environmental biology)
Bioinformatics
Biology
Botany (inclusive of plant science, applied plant science)
Cell biology
Entomology
Genetics
Microbiology
Molecular biology
Mycology
Virology
Zoology

Exclusions

Study of environmental sciences, which is the study of the relation between living organisms and the environment, is excluded from this detailed field and included in detailed field 0521 'Environmental sciences'.

Study of chemical processes in living organisms (biochemistry, toxicology, pharmacology etc.) is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

0512 Biochemistry

Biochemistry, sometimes called Biological chemistry, is the study of the chemistry of living organisms, including but not limited to living matter.

Programmes and qualifications with the following main content are classified here:

Content
Biological chemistry
Biophysics
Biotechnology
Cell technology
Forensic sciences
Genetic engineering
Pharmacology
Tissue culture technology
Toxicology
Virology

052 Environment

0521 Environmental sciences

Environmental sciences are the study of physical and biological sciences pertaining to the environmental issues and human impacts on environment.

Programmes and qualifications with the following main content are classified here:

Content
Atmospheric science
Ecology
Environmental science (inclusive of environmental chemistry)
Environmental health
Environmental management

Exclusions

The study of biology and toxicology are excluded from this detailed field and included under narrow field 051 'Biological and related sciences'.

0522 Natural environments and wildlife

Natural environments and wildlife is the study of the relationships between living organisms in natural environments in order to protect nature and wildlife. It includes the study of establishing and maintaining national parks in order to preserve their original natural state.

Programmes and qualifications with the following main content are classified here:

Content
National parks and wildlife management
Nature conservation
Wildlife

Exclusions

Study of agriculture, horticulture and forestry are excluded from this detailed field and included in some of the broad field under 08 'Agriculture, forestry, fisheries and veterinary'.

Study of hunting and trapping and forest conservation are excluded from this detailed field and included in detailed field 0821 'Forestry'.

053 Physical sciences

0531 Chemistry

Chemistry is the study of substances of which matter is composed, the investigation of their properties and reactions, and the use of such reactions to form new substances.

Programmes and qualifications with the following main content are classified here:

Content
Analytical chemistry
Applied chemistry (inclusive of oleochemistry, industrial chemistry, chemical technology, cosmetics, petroleum chemistry, chemical instrumentation, forensic science, natural product chemistry, medicinal chemistry)
Chemical biology
Computational chemistry
Organic chemistry
Inorganic chemistry
Physical chemistry
Theoretical chemistry

Exclusions

Biochemistry is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

0532 Earth sciences

Earth sciences is the study of the composition and structure of the earth including the hydrosphere and the atmosphere.

Programmes and qualifications with the following main content are classified here:

Content
Applied geology
Applied geophysics
Climatology
Geoscience
Economic geology
Environmental geology
Engineering geology
Geochemistry
Geochronology
Geodesy
Geography (physical)
Geohazard
Geology
Geophysics
Geospatial technology
Hydrogeology
Marine geology
Marine science (inclusive of marine science & technology)
Meteorology
Mineralogy
Natural resource science
Oceanography
Petrology
Petroleum geology
Prospecting and exploration
Regional geology
Rock physics
Rock mechanics
Seismology
Stratigraphy and palaeontology
Structural geology and tectonics
Volcanology

Exclusions

Social geography is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies. Soil science is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

0533 Physics

Physics is the study of properties and interactions of matter and energy. It includes the study of astronomy and space science.

Programmes and qualifications with the following main content are classified here:

Content
Applied physics (inclusive of industrial physics, engineering physics, solid state physics, instrumentation physics)
Astronomy
Astrophysics
Instrumental science
Nuclear science (inclusive of radiation and nuclear safety; safety, security & safeguard)
Optics
Physics
Pure geophysics
Space science
Theoretical and computational physics

Exclusions

Opticians' practice is excluded from this detailed field and included in detailed field 0914 'Medical diagnostic and treatment technology'.

054 Mathematics and statistics

0541 Mathematics

Mathematics is the study of abstract deductive systems. It includes algebra, arithmetic, geometry, real and complex analysis and pure and applied mathematics.

Programmes and qualifications with the following main content are classified here:

Content
Algebra
Applied mathematics
Financial mathematics
Geometry
Mathematics
Mathematical sciences

0542 Statistics

Statistics is the study of collecting, describing, arranging and analysing numerical data. The study of probability theory and actuarial science is included.

Programmes and qualifications with the following main content are classified here:

Content
Statistics
Actuarial science
Applied statistics (inclusive of data analytic, decision science)

Inclusions

Study of mathematical (theoretical) statistics is included here.

Exclusions

Demography/population studies is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'.

058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics

0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics

Inter-disciplinary or broad programmes and qualifications to which the greatest intended learning time is devoted to natural sciences, mathematics and statistics are classified here.

Content
Material science Renewable energy

06 INFORMATION AND COMMUNICATION TECHNOLOGIES

061 Information and communication technologies

0611 Information technology and information system

Information technology is the study of selection, creation, application, integration and administration of computing technologies to meeting the technological needs of business, government, healthcare, schools, TVET institution and other kinds of organisations.

Information system is the study of integrating Information technology solutions and business processes to meet the information needs of businesses and other enterprises. This discipline's perspective on Information technology emphasises information, and views technology as an instrument for generating, processing and distributing information.

Programmes and qualifications with the following main content are classified here:

Content
Cloud computing services (CCS)
Computer media applications/ Multimedia
Computer network installation and maintenance
Database administrator studies
Database design
e-commerce
Information assurance and security
Information science
Information technology/Information system policy and strategy
Information technology/Information system administration and management
Management information system (MIS)
Mobile computing
Multimedia creative
Network design and administration
Web design and web tools applications

Exclusion

Programmes and qualifications in using computer applications are excluded from this detailed field and included in detailed field 0614 'Computer use'.

0612 Software engineering

Software engineering is the study of systematic software development and maintenance of systems that behave reliably and efficiently, affordable to develop and maintain and built to customers' specifications.

Programmes and qualifications with the following main content are classified here:

Content
Software construction technologies and methods
Software requirement engineering
Software architecture
Software development
Software modelling and analysis
Software quality assurance
Software process
Software testing
Software estimation and risk analysis
Software management

Exclusion

Programmes and qualifications in using computer applications are excluded from this detailed field and included in detailed field 0614 'Computer use'.

Computer engineering (hardware) is excluded from this detailed field and included in detailed field 0713 'Electronics and automation'.

0613 Computer science

Computer science is the study of theory and algorithmic foundations in the development of computer technology in robotics, computer vision, intelligent systems, bioinformatics, forensic computing and other exciting areas. It involves designing and implementing software, devising new ways to use computers and developing effective ways to solve computing problems.

Programmes and qualifications with the following main content are classified here:

Content
Artificial intelligence
Bioinformatics
Computer forensic
Computer network
Computer programming
Computer systems analysis & design
Cyber security

Data science
Embedded systems
Gaming technology
Informatics
Internet of Things (IoT)
Machine learning
Operating systems
Programming languages development
User interface design

Exclusion

Computer engineering (hardware) is excluded from this detailed field and included in detailed field 0713 ‘Electronics and automation’.

Programmes and qualifications in using computer applications are excluded from this detailed field and included in detailed field 0614 ‘Computer use’.

0614 Computer use

Computer use is the study of using computers and computer software and applications for different purposes. These programmes are generally of short duration.

Programmes and qualifications with the following main content are classified here:

Content
Computer use
Use of software for data analytics/ processing
Use of software for calculating/ computation (spread sheets)
Use of software for desktop publishing
Use of software for word processing
Use of Internet
Use of social & business apps
Use of public search engine

068 Inter-disciplinary programmes and qualifications involving Information and communication technologies

0688 Inter-disciplinary programmes and qualifications involving information and communication technologies

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to information and communication technologies (ICTs) are classified here.

07 ENGINEERING, MANUFACTURING AND CONSTRUCTION

071 Engineering and engineering trades

0711 Chemical engineering and processes

Chemical engineering and processes is the study of planning, designing, and developing products and processes where chemical and physical changes occur. It includes designing chemical plants and control systems.

Programmes and qualifications with the following main content are classified here:

Content
Bio-process engineering
Chemical engineering
Chemical process engineering
Laboratory technology
Oil/gas/petrochemicals processing
Plant and machine operation (processing)
Process safety
Process technology
Oil and fat engineering
Palm oil processing
Plant operation

Inclusions

Laboratory technology is included here if emphasis is not given to a specific application.

Exclusions

Laboratory technology is excluded from this detailed field if emphasis is given to a specific application (biological, medical, etc.) and is included under the appropriate detailed field (0914 etc.). Biotechnology is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

Programmes and qualifications with emphasis on the production of a specific material are excluded from this detailed field (e.g. studies with emphasis on paper processing should be included in detailed field 0722 'Materials (glass, paper, plastic, wood)').

0712 Electricity and energy

Electricity and energy is the study of installing, maintaining, repairing and diagnosing faults in electrical wiring and related equipment in domestic, commercial and industrial establishments. Installation and maintenance of overhead and underground electrical power distribution networks is included. Energy is the study of energy generation.

Programmes and qualifications with the following main content are classified here:

Content
Air-conditioning trades
Climate engineering
Electrical appliances repairing
Electrical engineering
Electrical fitting
Electrical power generation
Electrical trades
Energy studies
Gas distribution
Heating trades
Nuclear, hydraulic and thermal energy
Power line installation and maintenance
Power production
Refrigeration
Solar power
Wind turbines

Inclusions

The study of installing, diagnosing faults in and repairing heating, air-conditioning and refrigeration equipment is included here.

Exclusions

Study of vehicle electrical systems is excluded from this detailed field and included in detailed field 0715 'Motor vehicles, ships and aircraft'.

0713 Electronics and automation

Electronics and automation is the study of planning, designing, developing maintaining and monitoring electronic equipment, machinery and systems. It includes designing computers and equipment for communication.

Programmes and qualifications with the following main content are classified here:

Content
Broadcasting electronics
Communication systems
Communications equipment installation
Communications equipment maintenance
Computer engineering
Computer repairing
Control engineering
Data processing technology
Digital technology
Electronics and automation
Electronic engineering
Electronic equipment servicing
Network technology
Robotics
Telecommunications technology
Television and radio repairing

Exclusions

Computer science (software and applications development) is excluded from this detailed field and included under 0612 'Software engineering'.

0714 Mechanics and metal trades

Mechanics and metal trades is the study of planning, designing, developing, producing, maintaining and monitoring machines, mechanical plants and systems and metal products. It includes designing and maintaining machines which produce goods and services. The focus of study in this detailed field is machines, mechanical systems and metal products.

Programmes and qualifications with the following main content are classified here:

Content
Bicycle production
Bicycle repair
Hydraulics
Locksmithing and safe repairing
Material engineering
Mechanical
Mechanical engineering
Mechanical trades
Metal casting and pattern making
Metal fitting, turning and machining
Metallurgical engineering
Non-destructive testing (NDT)
Precision mechanics
Sheet metal working
Steel production
Tool and die making
Welding

Exclusions

The study of motor vehicle mechanics and engineering is excluded from this detailed field and included in detailed field 0715 'Motor vehicles, ships and aircraft'.

0715 Motor vehicles, ships and aircraft

Motor vehicles, ships and aircraft is the study of designing, developing, producing, maintaining, diagnosing faults in, repairing and servicing motor vehicles, including earth moving equipment and agriculture machines, ships, trains and aircraft. Applied for conventional internal combustion engine (ICE), hybrid electrical vehicle (HEV) and electric vehicle (EV). Typical is the combination of studies in both metal structures and motors.

Programmes and qualifications with the following main content are classified here:

Content
Aerospace engineering
Aircraft engineering
Aircraft maintenance
Automotive electrical systems
Automotive engineering
Avionics
Battery technology for electronic vehicle's
Coachwork
Hybrid electrical vehicle and electric vehicle. services and maintenance
Maintenance technology
Marine engineering
Motorcycle engineering
Panel beating
Shipbuilding
Train repair and maintenance
Tribology
Vehicle building and repairing
Vehicle varnishing/ spraying

Inclusions

Study of vehicle electrical systems is included here.

Exclusions

Study of producing and repairing non-motorised vehicles is excluded from this detailed field and included in detailed field 0714 'Mechanics and metal trades' (e.g. bicycles) or 0722 'Materials (glass, paper, plastic, wood)' (e.g. non-motor boats).

0716 Civil engineering

Civil engineering is the study of planning, designing, testing and directing the construction of large-scale buildings and structures including systems for transport, water supply, sewage etc.

Programmes and qualifications with the following main content are classified here:

Content
Building engineering Civil engineering Dock and harbour engineering Water supply and sewerage engineering Water engineering and technology

0717 Environmental protection technology

Environmental protection technology is the study of processes in order to minimise discharge and waste and avoid pollution.

Programmes and qualifications with the following main content are classified here:

Content
Air pollution control Ecological efficiency Environmental engineering Industrial discharge control Noise pollution control Recycling Water pollution control

0719 Engineering and engineering trades not elsewhere classified

Engineering studies not covered by other detailed fields are classified here:

Nanotechnology

072 Manufacturing and processing

0721 Food processing

Food processing is the study of processing and packaging of food and beverages, and the equipment and procedures used in the production and distribution of foods.

Programmes and qualifications with the following main content are classified here:

Content
Baking
Butchery
Confectionery
Dairy foods
Food and drink processing
Food preservation
Food science and technology
Meat processing
Pastry cooking

Inclusions

Study of food handling and food hygiene is included here.

Exclusions

Restaurant and catering are excluded from this detailed field and included in detailed field 1013 'Hotel, restaurants and catering'.

Nutrition science is excluded from this detailed field and included in narrow field 051 'Biological and related sciences'.

0722 Materials (glass, paper, plastic and wood)

Materials is the study of the **manufacturing of products** in glass, paper, plastic, wood or other materials like stone, clay, artificial materials etc. Programmes and qualifications included in this detailed field have more to do with a specific material than general technical knowledge.

Programmes and qualifications with the following main content are classified here:

Content
Boat building (non-motor)
Cabinet making
Carpentry (furniture)
Ceramics (industrial)
Furniture making
Glass working (industrial)
Industrial diamond production
Paper manufacturing and processing
Plastic manufacturing
Rubber processing
Timber technology
Wood machining and turning
Woodwork trades

Exclusions

Study of metal work is excluded from this detailed field and included in detailed field 0714 'Mechanics and metal trades'.

Study of building carpentry and joinery is excluded from this detailed field and included in detailed field 0733 'Building and construction'.

Study of chemical processing in general is excluded from this detailed field and included in detailed field 0711 'Chemical engineering and processes'.

Study of printing and bookbinding is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Handicrafts programmes (glass arts and crafts, woodcarving etc) are excluded from this detailed field and included in detailed field 0214 'Craft skills'.

0723 Textiles (clothes, footwear and leather)

Textiles (clothes, footwear and leather) is the study of the manufacture of textiles, textile and leather products, clothing and related items, shoes and other forms of footwear.

Programmes and qualifications with the following main content are classified here:

Content
Clothing trades
Dressmaking
Footwear making
Fur making
Garment production
Leather processing
Saddlery
Shoemaking
Skins and leather production
Spinning
Tailoring
Textile trades
Upholstery
Weaving (industrial)
Wool science

Exclusions

Handicrafts studies (weaving, embroidery etc.) are excluded from this detailed field and included in detailed field 0214 'Craft skills'.

0724 Mining and extraction

Mining and extraction is the study of assessing, planning, developing, and directing the extraction of minerals, oil and gas from the earth.

Programmes and qualifications with the following main content are classified here:

Content
Coal mining
Mineral technology
Mining of minerals
Oil and gas drilling
Oil and gas extraction
Raw material extraction

Exclusions

Study of metallurgical engineering is excluded from this detailed field and included in 0714 'Mechanics and metal trades'.

Study of geology is excluded from this detailed field and included in detailed field 0532 'Earth sciences'.

073 Architecture, surveying and town planning

0731 Architecture

Architecture is the study of the art, science and techniques of building design. It encompasses both utilitarian ends - such as the soundness of the structure and the functional and economic efficiency of the building - and aesthetic considerations.

Programmes and qualifications with the following main content are classified here:

Content
Architecture
Architecture technology
Building design
Landscape architecture
Structural architecture
Interior architecture
Urban design and planning

Exclusions:

Study of interior design is excluded from this detailed field and included in detailed field 0212 Fashion, interior and industrial design'.

Geomatics is excluded from this detailed field and included in detailed field 0734 'Surveying.

0732 Urban and regional planning

Urban and regional planning is the study of the regulated growth and improvement of towns in both functional and aesthetical points of view.

Programmes and qualifications with the following main content are classified here:

Content
Community development
City planning
Rural planning
Town and country planning
Urban and regional planning

0733 Building and construction

Building and construction is the study of the science, technology and techniques of assembling, erecting and maintaining public, commercial, industrial and residential structures and their fittings.

Programmes and qualifications with the following main content are classified here:

Content
Bricklaying
Bridge construction
Building construction
Building science
Building technology
Carpentry and joinery (building)
Construction equipment
Construction management
Constructional metalwork (building)
Floor and wall tiling
Floor covering
House building
Industrial abseiling (commercial)
Landscape architecture technology
Masonry and tile setting
Painting and wall covering
Plastering
Plumbing and pipefitting
Road building
Ventilation

0734 Surveying

Surveying is the study of examining and reporting on the condition of the building, land, construction cost and contracts.

Programmes and qualifications with the following main content are classified here:

Content
Building surveying
Geomatic
Land surveying
Quantity surveying
Real estate valuation and management

074 Engineering technology

0741 Engineering technology

Engineering technology is the study of the application of specific engineering technique. It is a part of the technological field that requires the application of scientific and engineering knowledge and method combine with technical skills in support of engineering activities.

Programmes and qualifications with the following main content are classified here:

Content
Product testing
Product/ industrial design
Product development
Technical operation and quality control

078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

Inter-disciplinary or broad programmes and qualifications to which the greatest intended learning time is devoted to engineering, manufacturing and construction are classified here.

Mechatronic

08 AGRICULTURE, FORESTRY, FISHERIES AND VETERINARY

081 Agriculture

0811 Crop and livestock production

Crop and livestock production is the study of growing, maintaining and harvesting crops and pastures, and grazing and managing animals. It includes the study of managing and maintaining farms and producing unprocessed plant and animal products.

Programmes and qualifications with the following main content are classified here:

Content
Agronomy and crop science
Animal husbandry
Farm management
Food and non-food crops
Plantation crops
Plant breeding
Animal breeding
Agriculture and bioresources economy
Soil science
Soil and water management
Pest and disease management
Farm mechanisation
Agribusiness
Pasture management
Animal feed
Animal welfare

Inclusions

Study of soil fertility and irrigation techniques are included here.

Study of growing intensively managed crops such as fruit and vegetables is included here.

0812 Horticulture

Horticulture is the study of horticultural technology and management, greenhouse methods, nursery management, landscape gardening etc.

Programmes and qualifications with the following main content are classified here:

Content
Fruit production
Vegetable production
Ornamental plants
Landscape horticulture
Turf management
Nursery management
Green house operation
Pest and disease management
Soil and growing media
Farm management

Inclusions

The laying out and construction of urban and domestic parks and gardens is included here.

Gardening programmes combining floriculture and growing vegetables are included here.

Exclusions

Study of growing edible crops (such as wheat, rice, fruit, vegetables etc.) is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

Study of soil science, soil fertility and irrigation techniques is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

Study of National Park management is excluded from this detailed field and included in detailed field 0522 'Natural environments and wildlife'.

Study of landscape architecture is excluded from this detailed field and included in detailed field 0731 'Architecture'.

082 Forestry

0821 Forestry

Forestry is the study of establishing, cultivating, harvesting and managing forests. It includes the study of hunting and trapping.

Programmes and qualifications with the following main content are classified here:

Content
Silviculture
Forest economics
Forest management
Logging
Recreation and eco-tourism
Forest products
Pest and disease management
Forest soil
Forest conservation and ecology

Exclusions

Study of National Park management is excluded from this detailed field and included in detailed field 0522 'Natural environments and wildlife'.

Timber technology (sawmill production etc) is excluded from this detailed field and included in detailed field 0722 'Materials (glass, paper, plastic and wood)'.

Wildlife management is excluded from this detailed field and included in the detailed field 0522 'Natural environments and wildlife'.

083 Fisheries

0831 Fisheries

Fisheries is the study of breeding, rearing and harvesting fish and other seafood.

Programmes and qualifications with the following main content are classified here:

Content
Aquaculture system
Fishery science and technology
Hatchery
Genetic and breeding
Fish nutrition
Fish health management
Fish and shellfish culture
Mariculture
Deep sea fishing

Inclusions

Programmes for operating fishing boats are included here.

Exclusions

Study of industrial processing of fish is excluded from this detailed field and included in detailed field 0721 'Food processing'.

Study of animal breeding and animal welfare are excluded from this detailed field and included in the detailed field 0811 'Crop and livestock production'.

084 Veterinary

0841 Veterinary

Veterinary is the study of preventing, diagnosing and treating diseases and injuries in animals, and their general care. The study of caring for sick, injured and infirm animals undergoing treatment in veterinary clinics is included. It also includes the study of providing assistance to veterinary scientists.

Programmes and qualifications with the following main content are classified here:

Content
Animal health care
Animal reproduction (science)
Artificial insemination (of animals)
Veterinary assisting
Veterinary medicine
Veterinary nursing
Veterinary science

Inclusions

The science of animal reproduction is included here.

Exclusions

Study of animal breeding and animal welfare are excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

088 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

0888 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

Inter-disciplinary or broad programmes and qualifications to which the greatest intended learning time is devoted to agriculture, forestry, fisheries and veterinary are classified here.

Smart farming

09 HEALTH AND WELFARE

091 Health

0911 Dental studies

Dental studies are the study of diagnosing, treating and preventing diseases and abnormalities of the maxillofacial structures' teeth and gums. It includes the study of designing, making and repairing dental prostheses and orthodontic appliances. It also includes the study of providing education and assistance to dentists.

Programmes and qualifications with the following main content are classified here:

Content
Dental education
Dental hygienist
Dental laboratory technologist
Dental nursing
Dental public health
Dental science
Dental surgery assistant
Dental surgery
Dental technology
Endodontology
Forensic odontology
Odontology
Oral surgery
Oral and maxillofacial imaging
Oral and maxillofacial surgery
Oral pathology and oral medicine
Orthodontics
Paediatric dentistry
Periodontics
Prosthodontics
Restorative dentistry
Special care dentistry

Inclusions

Study of dental public health is included here.

0912 Medicine

Medicine is the study of the principles and procedures used in preventing, diagnosing, caring for and treating illness, disease and injury in humans and the maintenance of general health. Principally, this detailed field consists of training of physicians/doctors.

Programmes and qualifications with the following main content are classified here:

Content
Anaesthesiology
Emergency medicine
Family medicine
Genetics
Geriatric medicine
Internal medicine
Medical education
Neuroscience
Nuclear medicine
Obstetrics & gynaecology
Orthopaedics
Oncology
Ophthalmology
Otorhinolaryngology-head and neck
Physiology
Paediatrics
Psychiatry
Public health
Radiology
Reconstructive science
Rehabilitative medicine
Surgery
Transfusion medicine
Sport medicine

0913 Nursing, midwifery and medical assistance

Nursing is the study of encompasses autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well and in all settings, and collaborates with other health professionals. It includes the promotion of health, the prevention of illness, rehabilitation and the care of ill, disabled and dying people.

Midwifery is the study of encompasses care of women during pregnancy, labour, and the postpartum period, assisting breast feeding as well as care of the newborn.

Medical assistance is a study of an integral part in primary and specialised health services. The scope of services provided encompasses the aspects of promotive, preventive, curative and rehabilitative in health care. It includes the clinical and governance aspects of various disciplines in both medical and public health setting.

Programmes and qualifications with the following main content are classified here:

Content
Assistant nursing/nursing aide
General nursing
Medical assistance
Midwifery
Nursing research
Nursing management
Paramedics
Specialised nursing
Teaching in nursing (methodology/education)

Inclusions

Care programmes comprising only for nursing care (individual, family and community), prevention, health promotion, research and education in nursing.

Exclusions

Veterinary nursing is excluded from this detailed field and is included in detailed field 0841 'Veterinary'.

Dental nursing is excluded from this detailed field and is included in detailed field 0911 'Dental studies'.

Non-medical care of children (not health care) is excluded from this detailed field and included in detailed field 0922 'Child care and youth services.'

Non-medical care of the elderly (not health care) is excluded from this detailed field and included in detailed field 0921 'Care of elderly and disabled adults.'

0914 Medical diagnostic and treatment technology

Medical diagnostic and treatment technology is the study of a wide range of technologies used for diagnosing and treating diseases and handicaps.

Programmes and qualifications with the following main content are classified here:

Content
Ambulance technology
Hearing aid technology
Medical laboratory technology
Optical lens making
Optical prosthetics/lenses
Optical technology
Optometry
Prosthetic technology
Radiology technology
Radiotherapy
X-ray technology (medical)

Exclusions

Study of laboratory technology is excluded from this detailed field if emphasis is not given to medical laboratory technology. General laboratory technology is included in detailed field 0711 'Chemical engineering and processes.' Laboratory technology where emphasis is given to other specific applications (biology, chemistry, physics etc) is included in the appropriate detailed field (0511, 0531, 0533 etc.).

Study of dental technology / Dental laboratory technologist is excluded from this detailed field and included in detailed field 0911 'Dental studies.'

0915 Therapy and rehabilitation

Therapy and rehabilitation is the study of restoring normal physical conditions to those incapacitated by temporary or permanent disability.

Programmes and qualifications with the following main content are classified here:

Content
Audiology
Dietician programmes
Hearing therapy
Medical massage
Nutrition/dietetics
Occupational therapy
Physiotherapy
Rehabilitation
Speech therapy

Exclusions

Study of psychotherapy is excluded from this detailed field and included in detailed field 0313 'Psychology'.

Study of nutrition science is excluded from this detailed field and included in narrow field 051 'Biological and related sciences.'

0916 Pharmacy

Pharmacy is the study of drugs and their effects on humans. It includes their preparation, dispensing and administration.

Programmes and qualifications with the following main content are classified here:

Content
Pharmacy
Clinical pharmacy (clinical pharmacokinetics, pharmacogenomics, pharmacometrics)
pharmaceutical chemistry (including medicinal chemistry, pharmaceutical analysis, pharmacognosy, herbal science)
Pharmaceutical sciences
Pharmaceutics (including dispensing pharmacy, pharmaceutical technology, industrial pharmacy, cosmeceutical, nuclear pharmacy)
Pharmacy education

Pharmacy practice (including social and administrative pharmacy, community pharmacy, public health pharmacy, veterinary pharmacy, pharmacoeconomic, pharmacoepidemiology, pharmacoinformatics)

0917 Traditional and complementary medicine and therapy

Traditional and complementary medicine is the study of alternative medicine.

Programmes and qualifications with the following main content are classified here:

Content
Chiropractic
Homeopathy
Islamic medical practice
Osteopathy
Traditional Chinese medicine (including acupuncture, oriental medicine, herbology)
Traditional Indian medicine (including ayurvedic medicine)
Traditional Malay medicine (including Malay massage)

092 Welfare

0921 Care of elderly and of disabled adults

Care of elderly and of disabled adults is the study of non-medical care of the elderly and disabled.

Programmes and qualifications with the following main content are classified here:

Content
Care of the elderly
Non-medical care of disabled adults
Personal care of adults

Exclusion:

Study of health care of the elderly and disabled is excluded from this detailed field and included in detailed field 0913 'Nursing, midwifery and medical assistance.'

0922 Child care and youth services

Child care and youth services are the study of the development and non-medical care of children and youths. It includes the study of recreation and leisure activities as a social service for school children and young adults.

Programmes and qualifications with the following main content are classified here:

Content
Child care
Child recreation programmes
Day care
Non-medical care of disabled children
Youth services
Youth worker programmes

Exclusions

Study of early childhood education in pre-schools is excluded from this detailed field and included in detailed field 0112 'Training for pre-school teachers'.

Study of health care of children is excluded from this detailed field and included in detailed field 0912 'Medicine'.

0923 Social work and counselling

Social work and counselling is the study of the welfare needs of communities, specific groups and individuals and the appropriate ways of meeting these needs. The focus is on social welfare with emphasis on social policy and practice.

Programmes and qualifications with the following main content are classified here:

Content
Alcohol and drug abuse counselling
Alcohol, tobacco, drugs (knowledge about)
Crisis support
Family and marriage counselling
Mobbing and maltreatment (knowledge about)
Parole officer training
Probation officer training
Social policy
Social practice
Social theory (applied)
Social work (welfare)
Vocational counselling
Vocational guidance

Exclusions

Study of sociology and social science is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies.'

Studies combining health care and social care (e.g. for old people) are excluded from this detailed field and included in detailed field 0913 'Nursing, midwifery and medical assistance.'

098 Inter-disciplinary programmes and qualifications involving health and welfare

0988 Inter-disciplinary programmes and qualifications involving health and welfare

Inter-disciplinary or broad programmes and qualifications to which the greatest intended learning time is devoted to health and welfare are classified here

10 SERVICES

101 Personal services

1011 Domestic services

Domestic services are the study of various domestic services, such as housekeeping, cleaning, laundering, sewing etc.

Programmes and qualifications with the following main content are classified here:

Content
Caretaking, housekeeping and home service workers
Cleaning
Domestic science
Funeral services and mortuary science
Home economics
Laundry services
Sewing

Inclusions

Cleaning is included here even if directed towards cleaning schools, hospitals, factories etc.

Exclusions

Study of building maintenance is excluded from this detailed field and included in detailed field 0733 'Building and construction'.

1012 Hair and beauty services

Hair and beauty services are the study of caring for the hair and the body for beautification.

Programmes and qualifications with the following main content are classified here:

Content
Barbering
Beauty therapy
Cosmetology (make up)
Fitness and weight control
Hairdressing
Manicure
Pedicure

1013 Hotel, restaurants and catering

Hotel, restaurants and catering is the study of providing food, beverages, accommodation and related services at hotels, restaurants etc.

Programmes and qualifications with the following main content are classified here:

Content
Catering
Cooking (restaurant and hotel-type)
Food preparation
Food serving
Hospitality services
Hotel and restaurant studies
Hotel services
Waiting and bar service

Exclusions

Study of food processing (industrial) is excluded from this detailed field and included in detailed field 0721 'Food processing'.

Receptionist training (general) is excluded from this detailed field and included in detailed field 0416 'Secretarial and office studies.'

1014 Sports

Sports is the study of techniques and skills in a chosen sport.

Programmes and qualifications with the following main content are classified here:

Content
Sport trainer studies
Techniques and skills in a chosen sport
Training of umpires/referees and other sports officials

Exclusions

Training of school teachers in physical education (sports teachers) is excluded from this detailed field and included in detailed field 0114 'Educator training with subject specialisation'.

Fitness services are excluded from this detailed field and included in detailed field 1012 'Hair and beauty services'.

Sport medicine is excluded from this detailed field and included in detailed field 0912 'Medicine'.

1015 Travel, tourism and leisure

Travel and tourism is the study of marketing and advertising tourist destinations and events. It includes the study of ticketing and reservation practices. **Leisure** is the study of recreational and leisure activities for individuals and groups.

Programmes and qualifications with the following main content are classified here:

Content
Abseiling (rope climbing)
Adventure based activities
Ground crew training (airport)
Guiding, tour leading
Recreation and leisure
Tourist trades programmes
Travel agency services
Travel and tourism
Travel services

Inclusions

Basic training in how to treat tourists is included here.

Exclusions

Study of recreation and leisure activities for school children is excluded from this detailed field and included in detailed field 0922 'Child care and youth services'.

102 Hygiene and occupational health services

1021 Community sanitation

Community sanitation is the study of community services dealing with items that affect public health such as hygienic standards in food, water supply, disposal of sewage and garbage and street cleaning.

Programmes and qualifications with the following main content are classified here:

Content
Hygiene, community
Hygienic standards
Refuse collection
Refuse/sewage disposal
Street cleaning
Water supply (service)
Waste management

1022 Occupational health and safety

Occupational health and safety is the study of recognising, evaluating and controlling environmental factors associated with the workplace.

Programmes and qualifications with the following main content are classified here:

Content
Ergonomics (occupational health and safety)
Health and safety in the workplace
Industrial welfare
Labour protection
Labour security
Labour welfare (safety)
Occupational health and industrial hygiene
Occupational safety
Stress management
Work environment

Exclusions

Study of vocational rehabilitation and occupational therapy is excluded from this detailed field and included in detailed field 0915 'Therapy and rehabilitation'.

Study of labour law is excluded from this detailed field and included in 0421 'Law'.

Study of ergonomics is excluded from this detailed field if emphasis is given to technical aspects and is included in the appropriate detailed field under 071 'Engineering and engineering trades'.

103 Security services

1031 Military and defence

Military and defence is the study of services to the community connected with war and defence, designed to provide training in the principles and practice of military science.

Programmes and qualifications with the following main content are classified here:

Content
Air force training
Army training
Navy training
Defence studies
Military science
War theory

Exclusions

Military personnel participating in non-military programmes should be classified according to the subject content of the training programme.

1032 Protection of persons and property

Protection of persons and property is the study of services to the community concerning protection of property and persons. It comprises training in police work, public security, fire protection and fire-fighting.

Programmes and qualifications with the following main content are classified here:

Content
Civil security
Customs programmes
Fire-protection (fire-fighting)
Fire technology
Life guarding
Police work
Policing studies
Prison work
Public security
Security and loss prevention services
Security guarding

Exclusions

Study of law is excluded from this detailed field and included in 0421 'Law'.

Study of criminology is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'.

104 Transport services

1041 Transport services

Transport is the study of operating, navigating and directing ships, train, aircraft and other forms of transportation.

Programmes and qualifications with the following main content are classified here:

Content
Aircraft operation
Air traffic control
Air traffic safety
Cabin crew training
Communication (air, railway, road etc.) programmes
Crane and truck driving
Driving programmes
Flying and navigation
Navigation technologies
Postal service
Railway operations
Road motor vehicle operations
Ship operation
Shipping
Transport studies

Exclusions

Programmes in telephone network services are excluded from this detailed field and included in detailed field 0713 'Electronics and automation'. Programmes in switchboard operating are excluded from this detailed field and included in detailed field 0416 'Secretarial and office studies'.

108 Inter-disciplinary programmes and qualifications involving services

1088 Inter-disciplinary programmes and qualifications involving services

Inter-disciplinary programmes and qualifications to which the greatest intended learning time is devoted to services are classified here.

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APPENDIX A

**Numerical Listing of Fields of Education and Training
by Programme Contents**

Appendix A Numerical Listing of Fields of Education and Training by Programme Contents

00 GENERIC PROGRAMMES AND QUALIFICATIONS

000 Generic programmes and qualifications not further defined

0000 Generic programmes and qualifications not further defined

001 Basic programmes and qualifications

0011 Basic programmes and qualifications

Basic programmes and qualifications

Broad, generic (non-specialised) programmes and qualifications

General programmes and qualification with no specific subject emphasis

Programmes and qualification at primary level

002 Literacy and numeracy

0021 Literacy and numeracy

Basic remedial programmes for youth or adults

Literacy

Numeracy

003 Personal skills

0031 Personal skills

Argumentation and presentation

Assertiveness training

Communication skills

Co-operation

Development of behavioural capacities

Development of mental skills

Job-seeking programmes

Parenting courses

Public speaking

Self-esteem skills

Social competence

Time management

009 Generic programmes and qualifications not elsewhere classified

0099 Generic programmes and qualifications not elsewhere classified

01 EDUCATION

011 Education

0110 Education not further defined

0111 Education science

Curriculum studies

Didactics

Educational assessment, testing and measurement

Educational evaluation and research

Pedagogical sciences

0112 Training for pre-school teachers

Early childhood teaching (within formal school settings)

Pre-primary teacher training

0113 Educator training without subject specialisation

Class teacher training

Indigenous teacher training

Primary teaching

Teacher training for children with special needs

0114 Educator training with subject specialisation

Educator training - arts and crafts

Educator training - commercial subjects

Educator training - music

Educator training - nursing

Educator training - physical training

Educator training - second languages

Educator training - specific theoretical subjects, e.g. English, mathematics, history

Educator training - technical and vocational

Educator training - foreign/ international languages

Educator training – e-learning content development and delivery

Training of driving instructors

Training of trainers

0119 Education not elsewhere classified

018 Inter-disciplinary programmes and qualifications involving education

0188 Inter-disciplinary programmes and qualifications involving education

02 ARTS AND HUMANITIES

020 Arts and humanities not further defined

0200 Arts and humanities not further defined

021 Arts

0210 Arts not further defined

0211 Audio-visual techniques and media production

Animation

Bookbinding

Camera operating

Compositing (printing)

Computer game production

Computer type-setting

Graphic design

Graphic reproduction

Illustration

Interactive media design

Media techniques

Multimedia production

Photography

Pre-press operations
Print finishing and binding
Printing
Publishing design, lay-out
Radio and TV production
Recorded music production
Sound techniques
Type-setting

0212 Fashion, interior and industrial design

Costume design
Design of industrial products
Fashion design
Industrial design (artistry)
Interior design
Stage designing
Window dressing

0213 Fine arts

Art theory
Calligraphy
Etching
Fine art printmaking
History of art
Painting
Philosophy of art
Sculpture

0214 Craft skills

Ceramics
Crafts, folk arts and artisan
Decorative metal crafts
Indigenous crafts
Embroidery
Fibre arts
Floristry (flower arranging)
Glass arts and craft
Goldsmithing
Handicrafts
Jewellery
Making of musical instruments (not industrial)
Musical instruments (repairing and tuning)
Silversmithing
Stone carving
Textile arts
Weaving arts
Woodcarving

0215 Music and performing arts

Acting and directing

Ballet
Choreography
Circus
Composition (music)
Conducting (music)
Creative and performance art (including production)
Dance
Drama
History of film and theatre
History of music
Music
Music conducting
Musicology
Theatre/theatre sciences

0216 Film, television and screen studies

Cinema studies
Film studies
Film and video production
Moving image studies
Screen studies
Television studies

0219 Arts not elsewhere classified

022 Humanities (except languages)

0221 Religion and theology

Religious history
Study of sacred books
Study of different religions
Theology

0222 History and archaeology

Archaeology
Cultural history
Folklore studies
History
History of literature
History of medicine
History of science and ideas
History of technology

0223 Philosophy and ethics

Ethics
Logic
Morals
Philosophy

0224 Islamic studies

Al-Quran and hadith
Aqidah
Da'wah and usuluddin

Falaq syarie
Fiqh and usul fiqh
Fatwa
Islamic Civilisation
Islamic Philosophy
Islamic science
Qada' and siyasah syar'iyah

0229 Humanities (except languages) not elsewhere classified

023 Languages

0231 Language acquisition

Classical languages
English literature
Exogenous languages
Foreign languages
Interpretation
Second languages, for example English as a second language
Sign language
Translation

0232 Literature and linguistics

Applied comparative linguistics
Children's literature
Classical and medieval literature
Comparative literature
Creative writing
Discourse studies
First language
Indigenous languages (i.e Kadazan, Iban, Orang Asli)
Linguistics
Language and linguistics
Literature
"Mother tongue" languages (i.e Mandarin, Tamil)
Native first languages
Phonetics
World literature

0233 National language

Malay language studies
Contemporary Malay language studies
Malay grammar

0239 Languages not elsewhere classified

028 Inter-disciplinary programmes and qualifications involving arts and humanities

0288 Inter-disciplinary programmes and qualifications involving arts and humanities

029 Arts and humanities not elsewhere classified

0299 Arts and humanities not elsewhere classified

03 SOCIAL SCIENCES, JOURNALISM AND INFORMATION

030 Social sciences, journalism and information not further defined

0300 Social sciences, journalism and information not further defined

031 Social and behavioural sciences

0310 Social and behavioural sciences not further defined

0311 Economics

Econometrics

Economic history

Economics

Political economics

0312 Political sciences and public policy

Civics

Environmental politics

Global governance

Human rights

International political economy

International relations

Migration studies

Peace and conflict studies

Political history

Political science

Public policy studies

Regionalism

Social movements

Urbanisation

0313 Psychology

Cognitive science

Psychoanalysis

Psychology

Psychotherapy

Educational psychology

Developmental psychology

Industrial psychology

Sports psychology

Neuropsychology

0314 Sociology and cultural studies

Criminology

Cultural geography

Cultural studies

Demography/population studies

Ethnology

Gender studies

Social anthropology

Sociology

0319 Social and behavioural sciences not elsewhere classified

032 Journalism, information and communication
0320 Journalism and information not further defined

0321 Journalism, reporting and communication

Broadcast journalism
Editing
Information (wording and content)
Journalism
News reporting

0322 Library, information and archival studies

Archival sciences
Curatorial studies
Documentation
Information science
Library studies
Museum documentation
Museum studies
Museology

0323 Media and Communication

Communication
Digital media
Mass communication
Media studies
Public relations

0329 Journalism and information not elsewhere classified

038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

039 Social sciences, journalism and information not elsewhere classified

0399 Social sciences, journalism and information not elsewhere classified

04 BUSINESS, ADMINISTRATION AND LAW

040 Business, administration and law not further defined

0400 Business, administration and law not further defined

041 Business and management

0410 Business and administration not further defined

0411 Accounting, auditing and taxation

Accounting
Auditing
Bookkeeping
Business taxation
Cost and management accountancy
Financial reporting

Insolvency

Tax accounting

Tax management

0412 Finance, banking and insurance

Bank teller studies

Banking and finance

Corporate finance

Financial management

Financial risk

Financial theory

Insurance

Investment analysis

Investments and securities

Pension insurance

Social insurance

Stock-broking

0413 Islamic banking and finance

Islamic banking and finance

Islamic commerce

Mu'amalat

Takaful

0414 Management and administration

Administration

Change management

Educational management

Employment management

Entrepreneurship

General business

Halal industry management

Health administration

Human resource management

International business

Logistic management

Management science

Management studies

Office management

Organizational theory and behaviour

Personnel administration

Personnel management

Project management

Strategic management

Supply chain management

Training management

Wholesale and retailing management

0415 Marketing and advertising

Advertising

Consumer behaviour

Franchising

Market research

Marketing

Merchandising
Digital business and marketing
Public relations
0416 Secretarial and office studies
Administrative and secretarial services
Clerical programmes
Data entry
Foreign language secretary programmes
Keyboard skills
Legal secretary programmes
Medical secretary programmes
Operation of office equipment
Receptionist training
Secretarial programmes
Stenography
Switchboard operating

0417 Work skills

Clients' needs
Company knowledge
Conflict management
Corporate social responsibility and business ethics
Customer service training
Industrial relations
'Introduction to work' courses
Managing diverse workforce
Organization at work
Quality assurance
Training and development
Work development

0419 Business and administration not elsewhere classified

042 Law

0421 Law

Banking law
Commercial law
Criminal justice studies
Competition law
History of law
Indigenous law
International trade law
Jurisprudence
Labour law
Legal practice
Notary/Notary's practise
Paralegal studies
Syariah law
Taxation law

048 Inter-disciplinary programmes and qualifications involving business, administration and law

0488 Inter-disciplinary programmes and qualifications involving business, administration and law

049 Business, administration and law not elsewhere classified

0499 Business, administration and law not elsewhere classified

05 NATURAL SCIENCES, MATHEMATICS AND STATISTICS

050 Natural sciences, mathematics and statistics not further defined

0500 Natural sciences, mathematics and statistics not further defined

051 Biological and related sciences

0510 Biological and related sciences not further defined

0511 Biology

Applied biology (inclusive of agrobiology, entomology, aquatic biology, biodiversity, conservation biology, environmental biology)

Bioinformatics

Biology

Botany (inclusive of plant science, applied plant science)

Cell biology

Entomology

Genetics

Microbiology

Molecular biology

Mycology

Virology

Zoology

0512 Biochemistry

Biological chemistry

Biophysics

Biotechnology

Cell technology

Forensic sciences

Genetic engineering

Pharmacology

Tissue culture technology

Toxicology

Virology

0519 Biological and related sciences not elsewhere classified

052 Environment

0520 Environment not further defined

0521 Environmental sciences

Atmospheric science

Ecology

Environmental science (inclusive of environmental chemistry)

Environmental health

Environmental management

0522 Natural environments and wildlife

National parks and wildlife management

Nature conservation

Wildlife

0529 Environment not elsewhere classified

053 Physical sciences

0530 Physical sciences not further defined

0531 Chemistry

Analytical chemistry

Applied Chemistry (inclusive of oleochemistry, industrial chemistry, chemical technology, cosmetics, petroleum chemistry, chemical instrumentation, forensic science, natural product chemistry, medicinal chemistry)

Chemical biology

Computational chemistry

Organic chemistry

Inorganic chemistry

Physical chemistry

Theoretical chemistry

0532 Earth sciences

Applied geology

Applied geophysics

Climatology

Geoscience

Economic geology

Environmental geology

Engineering geology

Geochemistry

Geochronology

Geodesy

Geography (physical)

Geohazard

Geology

Geophysics

Geospatial technology

Hydrogeology

Marine geology

Marine science (inclusive of marine science & technology)

Meteorology

Mineralogy

Natural resource science

Oceanography

Petrology

Petroleum geology

Prospecting and exploration

Regional geology

Rock physics

Rock mechanics

Seismology

Stratigraphy and palaeontology

Structural geology and tectonics

Volcanology

0533 Physics

Applied physics (inclusive of industrial physics, engineering physics, solid state physics, instrumentation physics)

Astronomy

Astrophysics

Instrumental science

Nuclear science (inclusive of radiation and nuclear safety; safety, security and safeguard)

Optics

Physics

Pure geophysics

Space science

Theoretical and computational physics

0539 Physical sciences not elsewhere classified**054 Mathematics and statistics****0540 Mathematics and statistics not further defined****0541 Mathematics**

Algebra

Applied Mathematics

Financial mathematics

Geometry

Mathematics

Mathematical sciences

0542 Statistics

Statistics

Actuarial science

Applied statistics (inclusive of data analytic, decision science)

058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics**0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics**

Material science

Renewable energy

059 Natural sciences, mathematics and statistics not elsewhere classified**0599 Natural sciences, mathematics and statistics not elsewhere classified****06 INFORMATION AND COMMUNICATION TECHNOLOGIES****061 Information and communication technologies****0610 Information and communication technologies (ICTs) not further defined****0611 Information technology and information system**

Cloud computing services (CCS)

Computer media applications/ Multimedia

Computer network installation and maintenance

Database administrator studies

Database design

e-commerce

Information assurance and security
Information science
Information technology/Information system policy and strategy
Information technology/Information system administration and management
Management information system (MIS)
Mobile computing
Multimedia creative
Network design and administration
Web design and web tools applications

0612 Software engineering

Software construction technologies and methods
Software requirement engineering
Software architecture
Software development
Software modelling and analysis
Software quality assurance
Software process
Software testing
Software estimation and risk analysis
Software management

0613 Computer science

Artificial intelligence
Bioinformatics
Computer forensic
Computer network
Computer programming
Computer systems analysis & design
Cyber security
Data science
Embedded systems
Gaming technology
Informatics
Internet of Things (IoT)
Machine learning
Operating systems
Programming languages development
User interface design

0614 Computer use

Computer use
Use of software for data analytics/processing
Use of software for calculating/computation (spread sheets)
Use of software for desktop publishing
Use of software for word processing
Use of Internet
Use of social & business apps
Use of public search engine

0619 Information and communication technologies (ICTs) not elsewhere classified

068 Inter-disciplinary programmes and qualifications involving information and communication technologies

0688 Inter-disciplinary programmes and qualifications involving information and communication technologies

07 ENGINEERING, MANUFACTURING AND CONSTRUCTION

070 Engineering, manufacturing and construction not further defined

0700 Engineering, manufacturing and construction not further defined

071 Engineering and engineering trades

0710 Engineering and engineering trades not further defined

0711 Chemical engineering and processes

Bio-process engineering

Chemical engineering

Chemical process engineering

Laboratory technology

Oil/gas/petrochemicals processing

Plant and machine operation (processing)

Process safety

Process technology

Oil and fat engineering

Palm oil processing

Plant operation

0712 Electricity and energy

Air-conditioning trades

Climate engineering

Electrical appliances repairing

Electrical engineering

Electrical fitting

Electrical power generation

Electrical trades

Energy studies

Gas distribution

Heating trades

Nuclear, hydraulic and thermal energy

Power line installation and maintenance

Power production

Refrigeration

Solar power

Wind turbines

0713 Electronics and automation

Broadcasting electronics

Communication systems

Communications equipment installation

Communications equipment maintenance

Computer engineering

Computer repairing

Control engineering

Data processing technology
Digital technology
Electronics and automation
Electronic engineering
Electronic equipment servicing
Network technology
Robotics
Telecommunications technology
Television and radio repairing

0714 Mechanics and metal trades

Bicycle production
Bicycle repair
Hydraulics
Locksmithing and safe repairing
Material engineering
Mechanical
Mechanical engineering
Mechanical trades
Metal casting and pattern making
Metal fitting, turning and machining
Metallurgical engineering
Non-destructive testing (NDT)
Precision mechanics
Sheet metal working
Steel production
Tool and die making
Welding

0715 Motor vehicles, ships and aircraft

Aerospace engineering
Aircraft engineering
Aircraft maintenance
Automotive electrical systems
Automotive engineering
Avionics
Battery technology for electronics vehicles's
Coachwork
Hybrid electrical vehicle and electric vehicle. services and maintenance
Maintenance technology
Marine engineering
Motorcycle engineering
Panel beating
Shipbuilding
Train repair and maintenance
Tribology
Vehicle building and repairing
Vehicle varnishing/ spraying

0716 Civil engineering

Building engineering
Civil engineering
Dock and harbour engineering
Water supply and sewerage engineering
Water engineering and technology
0717 Environmental protection technology

Air pollution control
Ecological efficiency
Environmental engineering
Industrial discharge control
Noise pollution control
Recycling
Water pollution control

0719 Engineering and engineering trades not elsewhere classified

Nanotechnology

072 Manufacturing and processing

0720 Manufacturing and processing not further defined

0721 Food processing

Baking
Butchery
Confectionery
Dairy foods
Food and drink processing
Food preservation
Food science and technology
Meat processing
Pastry cooking

0722 Materials (glass, paper, plastic and wood)

Boat building (non-motor)
Cabinet making
Carpentry (furniture)
Ceramics (industrial)
Furniture making
Glass working (industrial)
Industrial diamond production
Paper manufacturing and processing
Plastic manufacturing
Rubber processing
Timber technology
Wood machining and turning
Woodwork trades

0723 Textiles (clothes, footwear and leather)

Clothing trades
Dressmaking
Footwear making
Fur making
Garment production

Leather processing
Saddlery
Shoemaking
Skins and leather production
Spinning
Tailoring
Textile trades
Upholstery
Weaving (industrial)
Wool science

0724 Mining and extraction

Coal mining
Mineral technology
Mining of minerals
Oil and gas drilling
Oil and gas extraction
Raw material extraction

0729 Manufacturing and processing not elsewhere classified

073 Architecture, surveying and town planning

0730 Architecture, surveying and town planning not further defined

0731 Architecture

Architecture
Architecture technology
Building design
Landscape architecture
Structural architecture
Interior architecture
Urban design and planning

0732 Urban and regional planning

Community development
City planning
Rural planning
Town and country planning
Urban and regional planning

0733 Building and construction

Bricklaying
Bridge construction
Building construction
Building science
Building technology
Carpentry and joinery (building)
Construction equipment
Construction management
Constructional metalwork (building)
Floor and wall tiling

Floor covering
House building
Industrial abseiling (commercial)
Landscape architecture technology
Masonry and tile setting
Painting and wall covering
Plastering
Plumbing and pipefitting
Road building
Ventilation

0734 Surveying

Building surveying
Geomatic
Land surveying
Quantity surveying
Real estate valuation and management

074 Engineering technology

0741 Engineering technology

Product testing
Product/ industrial design
Product development
Technical operation and quality control

078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

Mechatronic

079 Engineering, manufacturing and construction not elsewhere classified

0799 Engineering, manufacturing and construction not elsewhere classified

08 AGRICULTURE, FORESTRY, FISHERIES AND VETERINARY

080 Agriculture, forestry, fisheries and veterinary not further defined

0800 Agriculture, forestry, fisheries and veterinary not further defined

081 Agriculture

0810 Agriculture not further defined

0811 Crop and livestock production

Agronomy and crop science
Animal husbandry
Farm management
Food and non-food crops
Plantation crops
Plant breeding
Animal breeding
Agriculture and bioresources economy
Soil science
Soil and water management
Pest and disease management

Farm mechanisation
Agribusiness
Pasture management
Animal feed
Animal welfare
0812 Horticulture
Fruit production
Vegetable production
Ornamental plants
Landscape horticulture
Turf management
Nursery management
Green house operation
Pest and disease management
Soil and growing media
Farm management

0819 Agriculture not elsewhere classified

082 Forestry

0821 Forestry

Silviculture
Forest economics
Forest management
Logging
Recreation and eco-tourism
Forest products
Pest and disease management
Forest soil
Forest conservation and ecology

083 Fisheries

0831 Fisheries

Aquaculture system
Fishery science and technology
Hatchery
Genetic and breeding
Fish nutrition
Fish health management
Fish and shellfish culture
Mariculture
Deep sea fishing

084 Veterinary

0841 Veterinary

Animal health care
Animal reproduction (science)
Artificial insemination (of animals)
Veterinary assisting
Veterinary medicine
Veterinary nursing
Veterinary science

088 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

0888 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

Smart farming

089 Agriculture, forestry, fisheries and veterinary not elsewhere classified

0899 Agriculture, forestry, fisheries and veterinary not elsewhere classified

09 HEALTH AND WELFARE

090 Health and welfare not further defined

0900 Health and welfare not further defined

091 Health

0910 Health not further defined

0911 Dental studies

Dental education

Dental hygienist

Dental laboratory technologist

Dental nursing

Dental public health

Dental science

Dental surgery assistant

Dental surgery

Dental technology

Endodontology

Forensic odontology

Odontology

Oral surgery

Oral and maxillofacial imaging

Oral and maxillofacial surgery

Oral pathology and oral medicine

Orthodontics

Paediatric dentistry

Periodontics

Prosthodontics

Restorative dentistry

Special care dentistry

0912 Medicine

Anaesthesiology

Emergency medicine

Family medicine

Genetics

Geriatric medicine

Internal medicine

Medical education

Neuroscience

Nuclear medicine

Obstetrics & gynaecology

Orthopaedics

Oncology

Ophthalmology
Otorhinolaryngology-head & neck
Physiology
Paediatrics
Psychiatry
Public health
Radiology
Reconstructive science
Rehabilitative medicine
Surgery
Transfusion medicine
Sport medicine

0913 Nursing, midwifery and medical assistance

Assistant nursing/nursing aide
General nursing
Medical assistance
Midwifery
Nursing research
Nursing management
Paramedics
Specialised nursing
Teaching in nursing (methodology/education)

0914 Medical diagnostic and treatment technology

Ambulance technology
Hearing aid technology
Medical laboratory technology
Optical lens making
Optical prosthetics/lenses
Optical technology
Optometry
Prosthetic technology
Radiology technology
Radiotherapy
X-ray technology (medical)

0915 Therapy and rehabilitation

Audiology
Dietician programmes
Hearing therapy
Medical massage
Nutrition/dietetics
Occupational therapy
Physiotherapy
Rehabilitation
Speech therapy

0916 Pharmacy

Pharmacy
Clinical pharmacy
(clinical pharmacokinetics, pharmacogenomics, pharmacometrics)

pharmaceutical chemistry
(including medicinal chemistry, pharmaceutical analysis, pharmacognosy, herbal science)

Pharmaceutical sciences

Pharmaceutics

(including dispensing pharmacy, pharmaceutical technology, industrial pharmacy, cosmeceutical, nuclear pharmacy)

Pharmacy education

Pharmacy practice

(including social and administrative pharmacy, community pharmacy, public health pharmacy, veterinary pharmacy, pharmaco-economic, pharmacoepidemiology, pharmacoinformatics)

0917 Traditional and complementary medicine and therapy

Chiropractic

Homeopathy

Islamic medical practice

Osteopathy

Traditional Chinese medicine

(including acupuncture, oriental medicine, herbology)

Traditional Indian medicine

(including ayurvedic medicine)

Traditional Malay medicine

(including Malay massage)

0919 Health not elsewhere classified

092 Welfare

0920 Welfare not further defined

0921 Care of elderly and of disabled adults

Care of the elderly

Non-medical care of disabled adults

Personal care of adults

0922 Child care and youth services

Child care

Child recreation programmes

Day care

Non-medical care of disabled children

Youth services

Youth worker programmes

0923 Social work and counselling

Alcohol and drug abuse counselling

Alcohol, tobacco, drugs (knowledge about)

Crisis support

Family and marriage counselling

Mobbing and maltreatment (knowledge about)

Parole officer training

Probation officer training

Social policy

Social practice

Social theory (applied)
Social work (welfare)
Vocational counselling
Vocational guidance

0929 Welfare not elsewhere classified

098 Inter-disciplinary programmes and qualifications involving health and welfare

0988 Inter-disciplinary programmes and qualifications involving health and welfare

099 Health and welfare not elsewhere classified

0999 Health and welfare not elsewhere classified

10 SERVICES

100 Services not further defined

1000 Services not further defined

101 Personal services

1010 Personal services not further defined

1011 Domestic services

Caretaking, housekeeping and home service workers

Cleaning

Domestic science

Funeral services and mortuary science

Home economics

Laundry services

Sewing

1012 Hair and beauty services

Barbering

Beauty therapy

Cosmetology (make up)

Fitness and weight control

Hairdressing

Manicure

Pedicure

1013 Hotel, restaurants and catering

Catering

Cooking (restaurant and hotel-type)

Food preparation

Food serving

Hospitality services

Hotel and restaurant studies

Hotel services

Waiting and bar service

1014 Sports

Sport trainer studies

Techniques and skills in a chosen sport

Training of umpires/referees and other sports officials

1015 Travel, tourism and leisure

Abseiling (rope climbing)
Adventure based activities
Ground crew training (airport)
Guiding, tour leading
Recreation and leisure
Tourist trades programmes
Travel agency services
Travel and tourism
Travel services

1019 Personal services not elsewhere classified**102 Hygiene and occupational health services****1020 Hygiene and occupational health services not further defined****1021 Community sanitation**

Hygiene, community
Hygienic standards
Refuse collection
Refuse/sewage disposal
Street cleaning
Water supply (service)
Waste management

1022 Occupational health and safety

Ergonomics (occupational health and safety)
Health and safety in the workplace
Industrial welfare
Labour protection
Labour security
Labour welfare (safety)
Occupational health and industrial hygiene
Occupational safety
Stress management
Work environment

1029 Hygiene and occupational health services not elsewhere classified**103 Security services****1030 Security services not further defined****1031 Military and defence**

Air force training
Army training
Navy training
Defence studies
Military science
War theory

1032 Protection of persons and property

Civil security

Customs programmes
Fire-protection (fire-fighting)
Fire technology
Life guarding
Police work
Policing studies
Prison work
Public security
Security and loss prevention services
Security guarding

1039 Security services not elsewhere classified

104 Transport services

1041 Transport services

Aircraft operation
Air traffic control
Air traffic safety
Cabin crew training
Communication (air, railway, road etc.) programmes
Crane and truck driving
Driving programmes
Flying and navigation
Navigation technologies
Postal service
Railway operations
Road motor vehicle operations
Ship operation
Shipping
Transport studies

108 Inter-disciplinary programmes and qualifications involving services

1088 Inter-disciplinary programmes and qualifications involving services

109 Services not elsewhere classified

1099 Services not elsewhere classified

99 Field unknown

999 Field unknown

9999 Field unknown