



CAREER PROGRESSION FOR CONSTRUCTION SITE PERSONNEL

Presented by:

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Session 2: 23rd August 2023



Theatrette,
MATRADE Exhibition & Convention Centre



CAREER PROGRESSION FOR CONSTRUCTION SITE PERSONNEL

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23rd August 2023



MATRADE Hall, MATRADE Exhibition & Convention Centre, Kuala Lumpur, Malaysia

CONSTRUCTION PERSONNEL PROGRESSION WHAT AND HOW?

Our content...

- 1) Definition of Construction*
- 2) Construction Personnel*
- 3) Accreditation*
- 4) Certification*
- 5) Construction Team*
- 6) Malaysia Frameworks*
- 7) Malaysia TVET Snapshot*
- 8) International Frameworks*
- 9) Career Progression*
- 10) Chartered Building Engineer (UK) for Malaysia Construction Personnel*
- 11) Higher Education? PhD? DBA?*





IMPORTANT SNAPSHOTS FROM CIDB ACT520





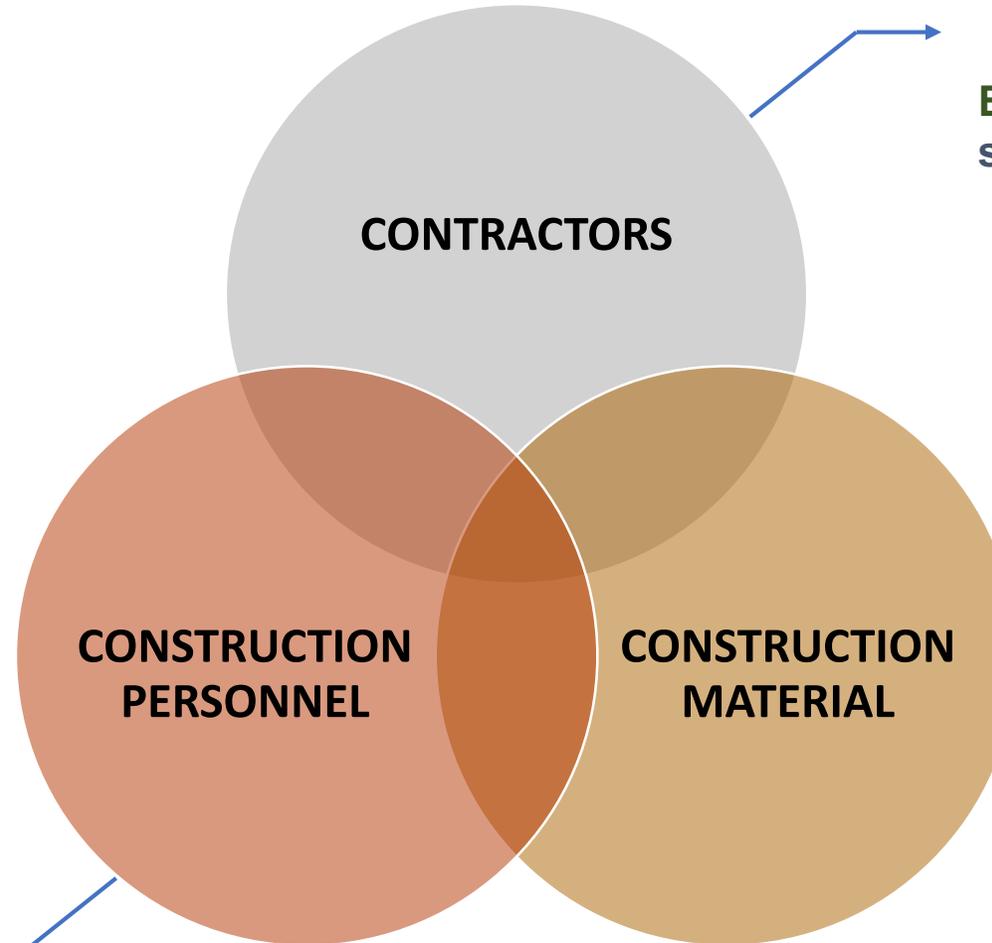
LAWS OF MALAYSIA

ONLINE VERSION OF UPDATED
TEXT OF REPRINT

Act 520

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA ACT 1994

^ - at 1 October 2015



**Registration,
Accreditation,
Enforcement structure
safety during and post
construction phase**

**Regulate enforcement
on standard
(Schedule 4)**

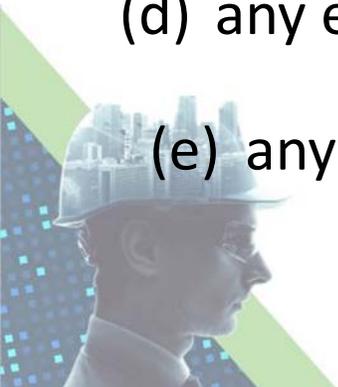
**Registration,
Certification and
Accreditation**



CONSTRUCTION WORKS ACCORDING TO THE ACT 520

“**construction works**” means the construction, extension, installation, repair, maintenance, renewal, removal, renovation, alteration, dismantling, or demolition of—

- (a) any building, erection, edifice, structure, wall, fence or chimney, whether constructed wholly or partly above or below ground level;
- (b) any road, harbour works, railway, cableway, canal or aerodrome;
- (c) any drainage, irrigation or river control works;
- (d) any electrical, mechanical, water, gas, petrochemical or telecommunication works; or
- (e) any bridge, viaduct, dam, reservoir, earthworks, pipeline, sewer, aqueduct, culvert, drive, shaft, tunnel or reclamation works, and **includes**—



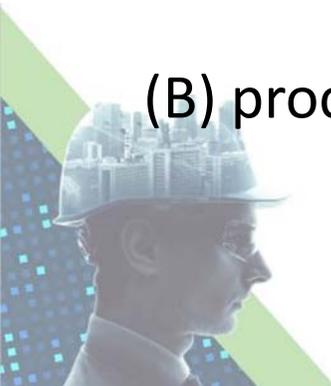
CONSTRUCTION WORKS ACCORDING TO THE ACT 520

Continues...

(A) any works which form an important and integral part of or are preparatory to or temporary for the works described in paragraphs (a) to (e), including site clearance, soil investigation and improvement, earth-moving, excavation, laying of foundation, site restoration and landscaping;

Or

(B) procurement of construction materials, equipment or workers, necessarily required for any work described in paragraphs (a) to (e) ;



“construction personnel” means—

- (a) general construction workers;
- (b) semi-skilled construction workers;
- (c) skilled construction workers;
- (d) construction site supervisors;
- (e) construction project managers; and
- (f) any other employee in construction industry as may be determined by the Lembaga;



“construction project manager” means any employee possessing the accepted level of skill, knowledge and experience as may be determined and who is assigned to the construction site or any other such place to organize, plan, control and co-ordinate the construction works from the inception to completion;

“construction site supervisor” means any employee possessing the accepted level of skill, knowledge and experience who is assigned to a construction site or any other such place to supervise the construction works;

“accreditation” means a procedure by which the Lembaga or any person **authorized** by it gives formal **recognition** that a body or person is **competent** to carry out a **specific task** relating to the construction industry;

“certification” means a procedure by which the Lembaga or any person authorized by it gives written assurance that a process, practice or service conforms with specified requirements;





LAWS OF MALAYSIA

ONLINE VERSION OF UPDATED
TEXT OF REPRINT

Act 520

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA ACT 1994

As at 1 October 2015



Accreditation and certification of construction site supervisor and skilled construction worker

33A. (1) No construction site supervisor or skilled construction worker shall be involved or engaged, or undertake to be involved or engaged as a construction site supervisor or skilled construction worker unless he is accredited and certified by the Lembaga and holds a valid certificate issued by the Lembaga under this Act.

(2) For the purpose of this Act, skilled construction workers are those specified in the Third Schedule.

(3) The Minister may, by order published in the *Gazette*, amend the Third Schedule.

(4) The Lembaga shall keep and maintain a Register which shall contain the names, addresses, trades, skills and other particulars of accredited and certified construction site supervisors and skilled construction workers.

(5) A person who contravenes subsection (1) shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five thousand ringgit.

(6) Any person who engages a construction site supervisor or skilled construction worker who is not accredited and certified by the Lembaga to carry out any construction work shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five thousand ringgit.



CIDB CONSTRUCTION PROGRAM...?

22nd Asia Construct Conference
Seoul, Korea
25 – 27 October 2017

http://www.asiaconst.com/asiacwp/wp-content/uploads/2017/12/22nd_Mylaysia_Theme-Paper.pdf

Malaysia Theme Paper

COMPETENCY IN THE MALAYSIAN CONSTRUCTION INDUSTRY



Construction Industry Development Board (CIDB) Malaysia
Level 10, Menara Dato' Onn
Putra World Trade Centre (PWTC)
No. 45, Jalan Tun Ismail
50480 Kuala Lumpur
Malaysia

asiaconstruct_my@cidb.gov.my
October 2017



“Definition of Competency: CIDB is the regulatory body for the construction industry in Malaysia and responsible for the various developments and activities associated with the construction industry, including the assessment of construction personnel. CIDB has proposed to **define construction skills’ competency** as: “the ability of a construction personnel to perform successfully the construction tasks within a certain work-scope in accordance to the required **competency standards** as specified in the National Occupational Skills Standards (NOSS) or other equivalent competency standards as recognised by CIDB”. The construction personnel who achieved the required level of competency will be recognised as a **Construction Competent Person (CCP)**. The recognition process requires the **certification and accreditation** by CIDB. According to Lembaga Pembangunan Industri Pembinaan Malaysia 1994 (Act 520), Section 2(1) the definitions certification and accreditation is stipulated in the ACT.”

INITIATIVES IN DEVELOPING COMPETENCY

Generally, most construction personnel in Malaysia were employed based on their skills gained through experience at the construction site. These construction personnel did not go through the formal approach of obtaining competency certificates. As far as the employers or clients are concerned, these construction personnel were deemed to be competent, and entrusted to perform construction works.

Additionally, there are no specific “map” or chart to guide the apprentice on a career path in the construction industry. Due to the absence of fixed guidelines, the apprentices are left to decide on their own. Tendencies are they enrol in courses advised by family and friends. Most of them who are also not familiar with the level and types of occupations in the construction industry. Upon their graduation from the construction-related courses, graduates are clueless on the direction of their career.

Currently, the government Technical and Vocational Education and Training (TVET) has 8 agencies using different sets of standards in competency training. This anomaly in standardisation creates confusion among TVET training institutions, construction personnel and employers. TVET also faces limited recognition by employers. Though TVET has steadily produced graduates, it is not a popular choice amongst apprentices due to its sceptical perception by prospective employers.



22nd Asia Construct Conference
Seoul, Korea
25 – 27 October 2017

Malaysia Theme Paper

**COMPETENCY
IN THE MALAYSIAN
CONSTRUCTION INDUSTRY**

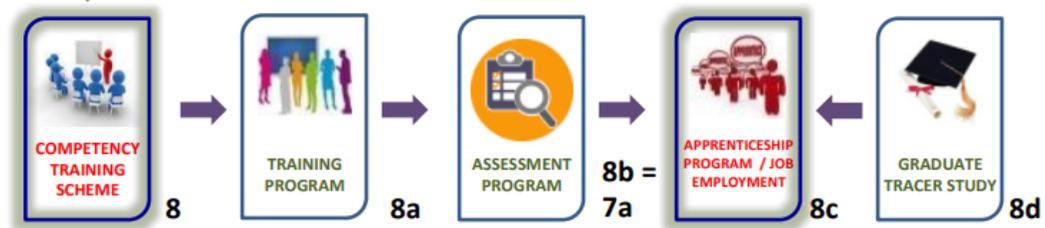
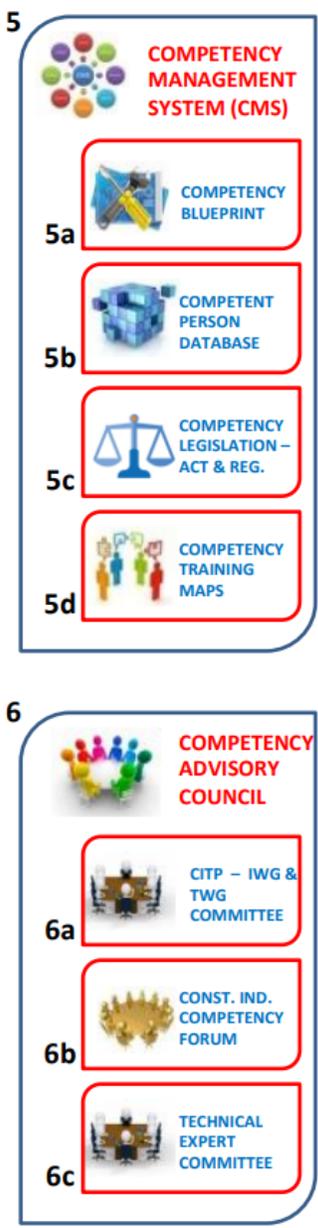


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October 2017

http://www.asiaconst.com/asiacwp/wp-content/uploads/2017/12/22nd_Malaysia_Theme-Paper.pdf

SUPPORTING FRAMEWORK



ASSESSMENT FRAMEWORK

TRAINING FRAMEWORK

22nd Asia Construct Conference
Seoul, Korea
25 – 27 October 2017

Malaysia Theme Paper
COMPETENCY IN THE MALAYSIAN CONSTRUCTION INDUSTRY



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October 2017

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<https://www.kkr.gov.my/ms/cidb-lancar-tvet-pembinaan-gesa-belia-sertai-industri-pembinaan>

(21st Sept 2019)




**CONSTRUCTION
SKILLS
QUALIFICATIONS
FRAMEWORK (CSQF)**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
**TRAINING
PROGRAMME
ACCREDITATION**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
**INSTITUTIONAL
COMPLIANCE AUDIT**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
**CONSTRUCTION
PERSONNEL
ACCREDITATION**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)



Senarai Program

10 Program Untuk Industri

Construction Personnel

- ▶ Construction Personnel Registration (Green Card)
- ▶ Application of Foreign Workers
- ▶ Application for Expatriate Workers (Commercial Officer)
- ▶ Accredited Training Centre
- ▶ Skilled Workers Development
- > > Skills Competency Training (LKK)
- > > Skills Competency Assessment (PKK)

- ▶ Supervisor Development
 - > > Certified Construction Site Supervisor (CSS)
 - > > Certified Facilities Management Executive (FME)
 - > > Certified Construction Traffic Management Officer (CTMO)
 - > > Certification Construction Safety & Health Officer (CSHO)
 - > > Certification Traffic Management Officer (TMO)
- ▶ Project Manager Development
 - > > Certified Construction Project Manager (CCPM)
 - > > Certified Construction Manager (CCM)
 - > > Certified Facility Management Manager (FMM)
 - > > Certified Sewerage Construction Manager (SCM)

Contractor

- ▶ Contractor Registration
- ▶ Project Declaration
- ▶ Contractor Development & Training

Construction Material

- ▶ Construction Material

Construction Industry Standard CIS

- ▶ Construction Industry Standard CIS

Global Mission

- ▶ International Tender
- ▶ Directory of Professional Construction
- ▶ Publication

Safety & Health

- ▶ SHASSIC

Quality

- ▶ QLASSIC

Environmental Sustainability

- ▶ MyCREST
- ▶ Sustainable INFRASTAR

Construction Information

- ▶ CONVINCCE

Technology

- ▶ IBS
- ▶ CR 4.0
- ▶ BIM



**CONSTRUCTION INDUSTRY
COMPETENCY STANDARD
(CICS)**

**CERTIFIED CONSTRUCTION
PROJECT MANAGER (CCPM)**

Code: CPM6



The **Construction Industry Competency Standard (CICS)** for construction personnel is developed to specify the minimum level of competencies for Malaysian construction industry. **CICS is defined as the specification of competencies** expected of construction personnel that been employed by a construction project organisation to effectively manage construction projects.

CAREER PROGRAM FOR CONSTRUCTION SITE PERSONNEL

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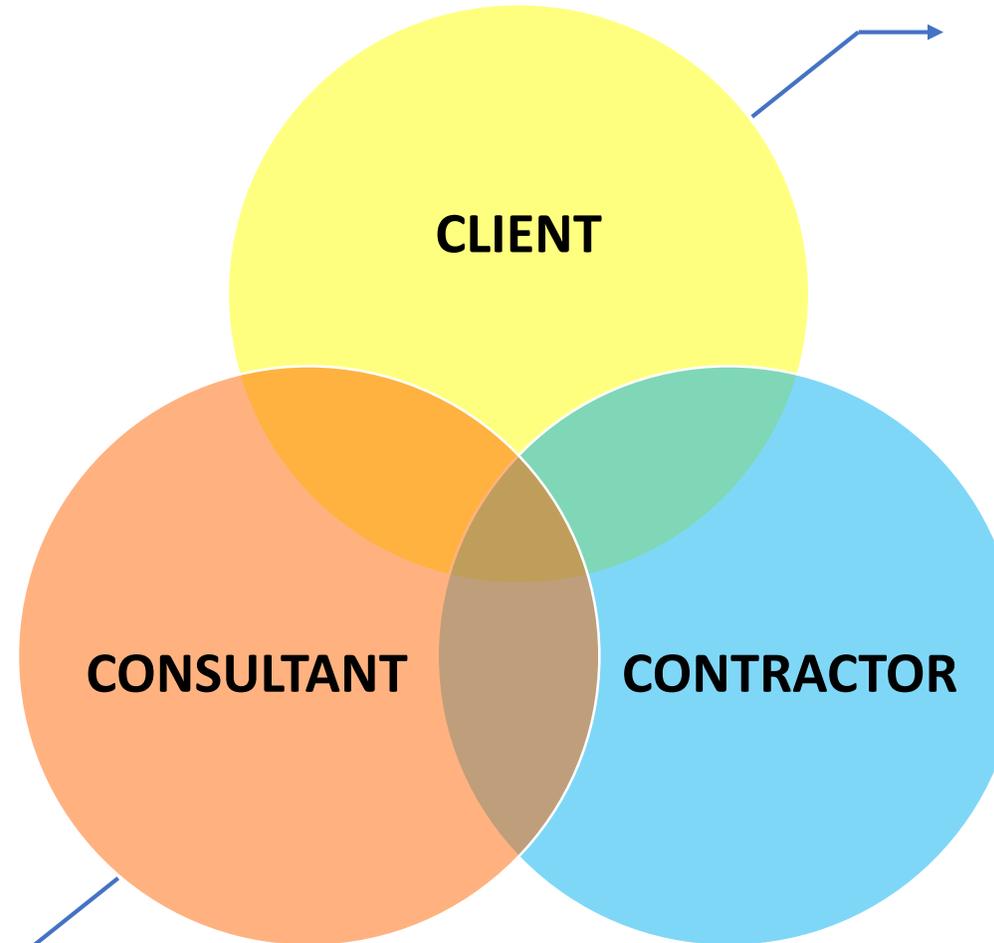


MATRADE Exhibition & Convention Centre, Kuala Lumpur, Malaysia



CONSTRUCTION TEAM...?

TYPICAL CONSTRUCTION TEAM LINE UP



Need Statement
FINANCIAL
FACILITATION
Serving the purpose
Becoming owner

Design & Coordination
Scope of Works
Specification
Pricing Control
Manage Progress
Simulation and Forecasting
ENSURING COMPLIANCE

Sub Contract
Staff / Workers / Labor
Materials / Suppliers
Machineries / Tools
Manage Resources
Planning & Scheduling
BUILT AND DELIVER



TYPICAL ENGINEERING CONSTRUCTION TEAM



EDUCATION LEVEL	CONSULTANT (BOARD OF ENGINEERS, BEM)	CONTRACTOR (CONSTRUCTION INDUSTRY DEVELOPMENT BOARD, CIDB)
	PROJECT DIRECTOR (PEPC)	PROJECT DIRECTOR (CCPM-L6)
	PROJECT MANAGER (PE/PEPC)	CONSTRUCTION MANAGER (CCM-L5)
ENGINEERING DEGREE	RESIDENT ENGINEER PROFESSIONAL ENGINEERS GRADUATE ENGINEERS	PROJECT ENGINEER / SITE ENGINEER PROJECT EXECUTIVE CCPM-L6 / CCM-L5
ENGINEERING DIPLOMA TECHNOLOGY DIPLOMA	INSPECTOR OF WORKS Site Executive	CERTIFIED SITE SUPERVISOR (CSS-L4) TRAFFIC MANAGEMENT OFFICER (CTMO-L4)
SCOPES	Design & Coordination Scope of Works Specification Pricing Control Manage Progress Simulation and Forecasting ENSURING COMPLIANCE	Sub Contract Staff / Workers / Labor Materials / Suppliers Machineries / Tools Manage Resources Planning & Scheduling BUILT AND DELIVER

TYPICAL CONSTRUCTION TEAM (CONSULTANT VS CONTRACTOR)



BEM:
Inspector of Works (IoW)
Graduate Engineers
Professional Engineers
PE with Practising Certificate

Other:
IoW Architect
Professional Architect
Landscape Architect
Registered QS
Town Planner

**CONSULTANT
(BEM / PAM /
BQSM, etc)**

Design & Coordination
Scope of Works
Specification
Pricing Control
Manage Progress
Simulation and Forecasting
ENSURING COMPLIANCE

Lapping SCOPES and KNOWLEDGE between
Consultant and Contractor

**CONTRACTOR
(CIDB)**

CONSTRUCTION:
Certified Site Supervisor (CSS)
Construction Traffic Management Officer (CTMO)
Certified Construction Manager (CCM)
Certified Construction Project Manager (CCPM)

FACILITY MANAGEMENT:
Facility Management Manager (FMM)
Facility Management Executive (FME)

Sub Contract
Staff / Workers / Labor
Materials / Suppliers
Machineries / Tools
Manage Resources
Planning & Scheduling
BUILT AND DELIVER

CIDB

CONSTRUCTION:

Certified Site Supervisor (CSS)
Construction Traffic Management Officer (CTMO)
Certified Construction Manager (CCM)
Certified Construction Project Manager (CCPM)

FACILITY MANAGEMENT:

Facility Management Manager (FMM)
Facility Management Executive (FME)

DOSH

Authorized Gas Tester / Entry Supervisor
Hygiene Technician 1 & 2
Indoor Air Quality Assessor
Lift Competent Person
Major Hazard Competent Person
Noise Competent Person
Occupational Health Doctor
Responsible Person / Scaffolder
Safety & health Officer
Site Safety Supervisor
Steam / Internal Combustion Engine Engineer

DOE:

CePIETSO (BP)
CePIETSO (PCP)
CePBFO
CePSO
CePSTPO
CePSWaM
CePLTPO
CePPOMETSO

ENERGY COMMISSION

Gas Competent Person
AO, A4
BO, B4
PW2, PW4
Electrical Competent Engineer
Electrical Service Engineer
Registered Electrical Energy Manager

SEDA

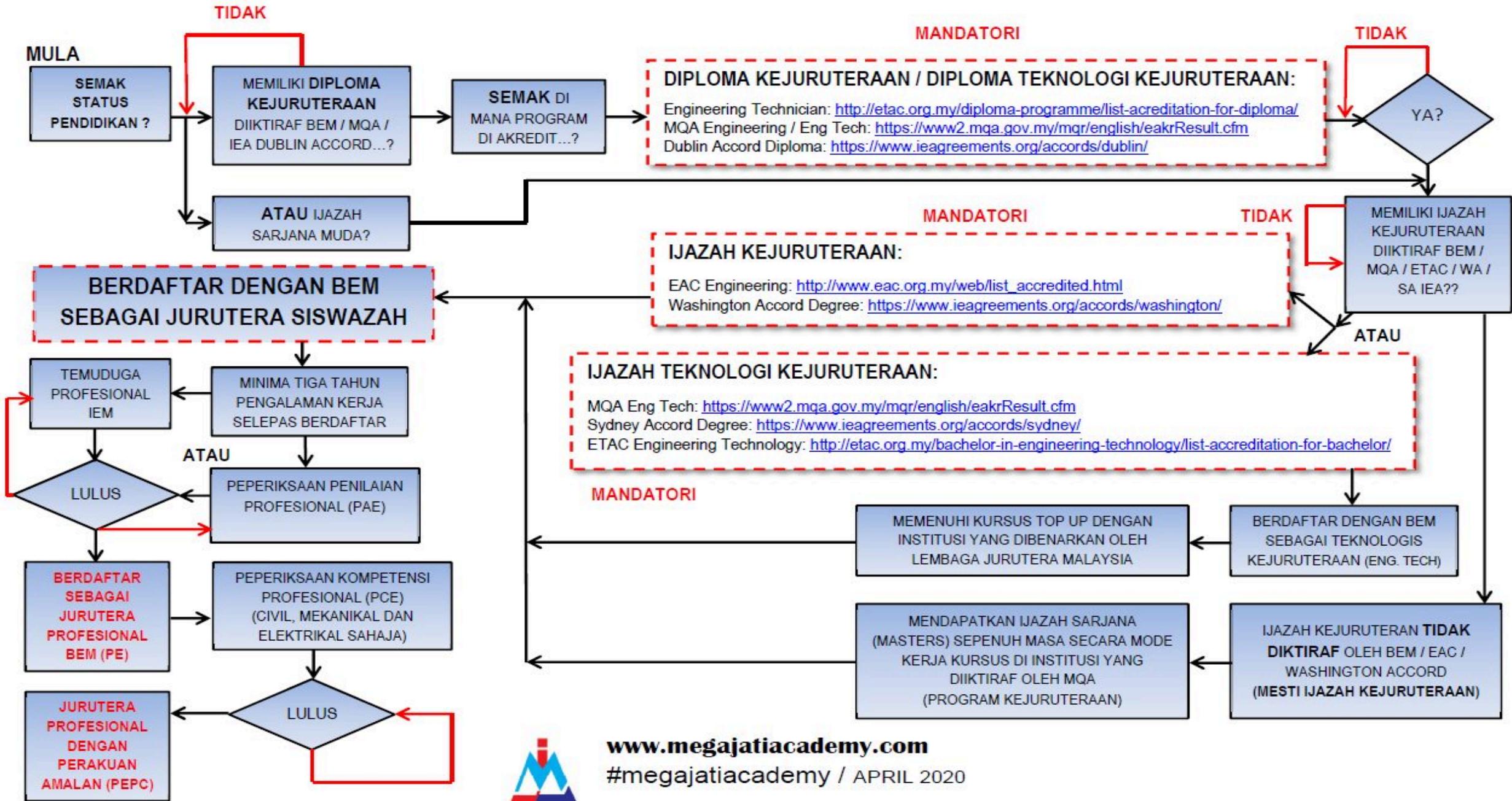
GCPV Design
GCPV Wireman
OGPV Design
Solar PV Installer

SPAN

SPAN Qualified Person (SPAN QP)

...Similarity and Differences...?

SAYA MEMILIKI CHARGE MAN A0 SURUHANJAYA TENAGA BAGAIMANA BOLEH SAYA MENJADI SEORANG JURUTERA PROFESIONAL BEM?



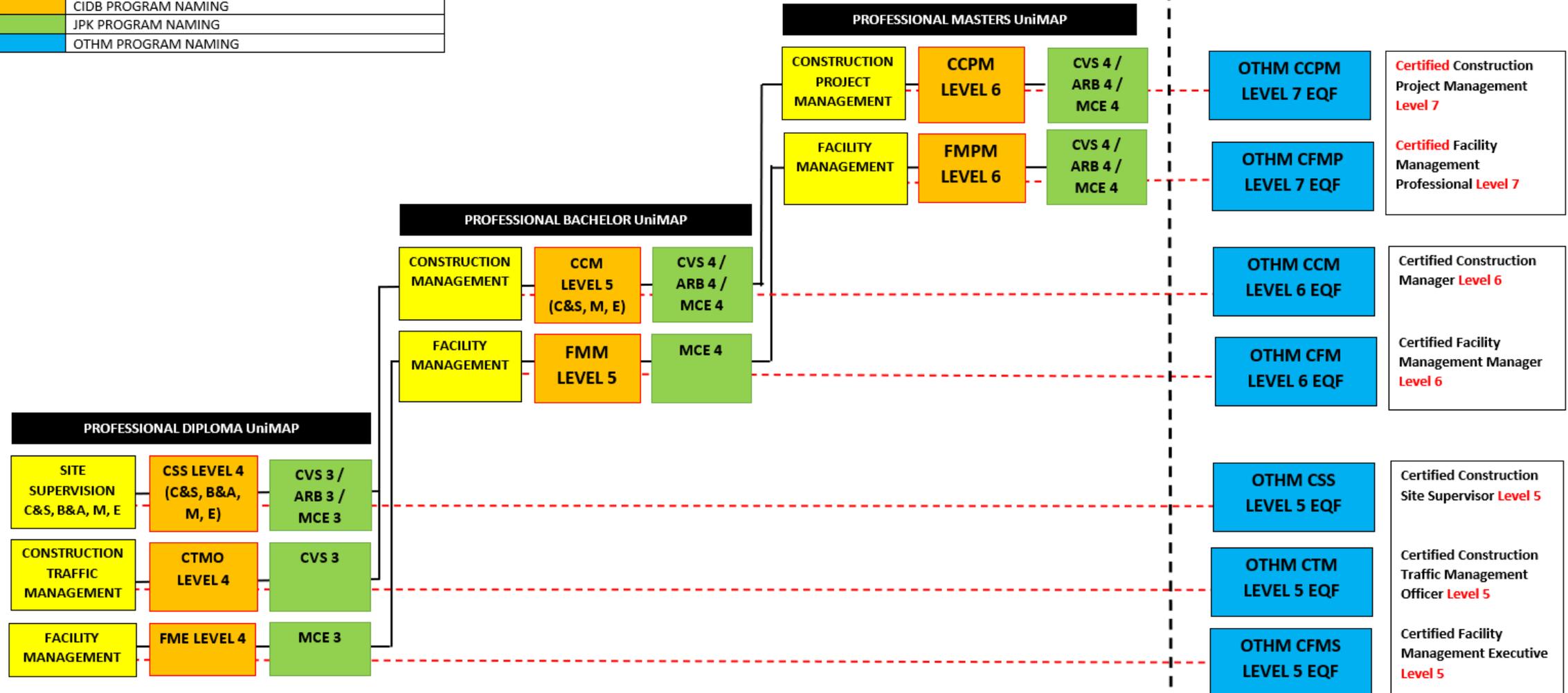
UNIVERSITI MALAYSIA PERLIS PROFESSIONAL PROGRAM
PROGRAM FLOW AND LEARNING PROGRESS PATH FOR ALL CANDIDATES



LOCAL, CONSTRUCTION SKILL QUALIFICATION FRAMEWORKS (CSQF) CIDB

INTERNATIONAL, EUROPEAN
QUALIFICATION FRAMEWORKS (EQF)

	UNIMAP PROGRAM NAMING
	CIDB PROGRAM NAMING
	JPK PROGRAM NAMING
	OTHM PROGRAM NAMING



1.0	Professional Diploma	2.0	Professional Bachelor	3.0	Professional Masters
1	Site Supervision (CSS) – Civil & Structure – Building & Architecture – Mechanical Works – Electrical Works	1	Construction Management – CCM - CCM – Civil & Structure – CCM – Electrical – CCM – Mechanical	1	Construction Project Manager- CCPM
2	Facility Management - FME	2	Facility Management - FMM	2	Facility Management Specialization in: - General Buildings – Healthcare Services – Water Services – Road & Highway – Railway Assets Management – Energy, Oil & Gas – Airport & Ground Services – Port & Harbour – Power & Telecommunication – Estate & Plantation
3	Construction Traffic Management - CTMO				

TOTAL 7 PROFESSIONAL PROGRAMS (with 17 specializations)

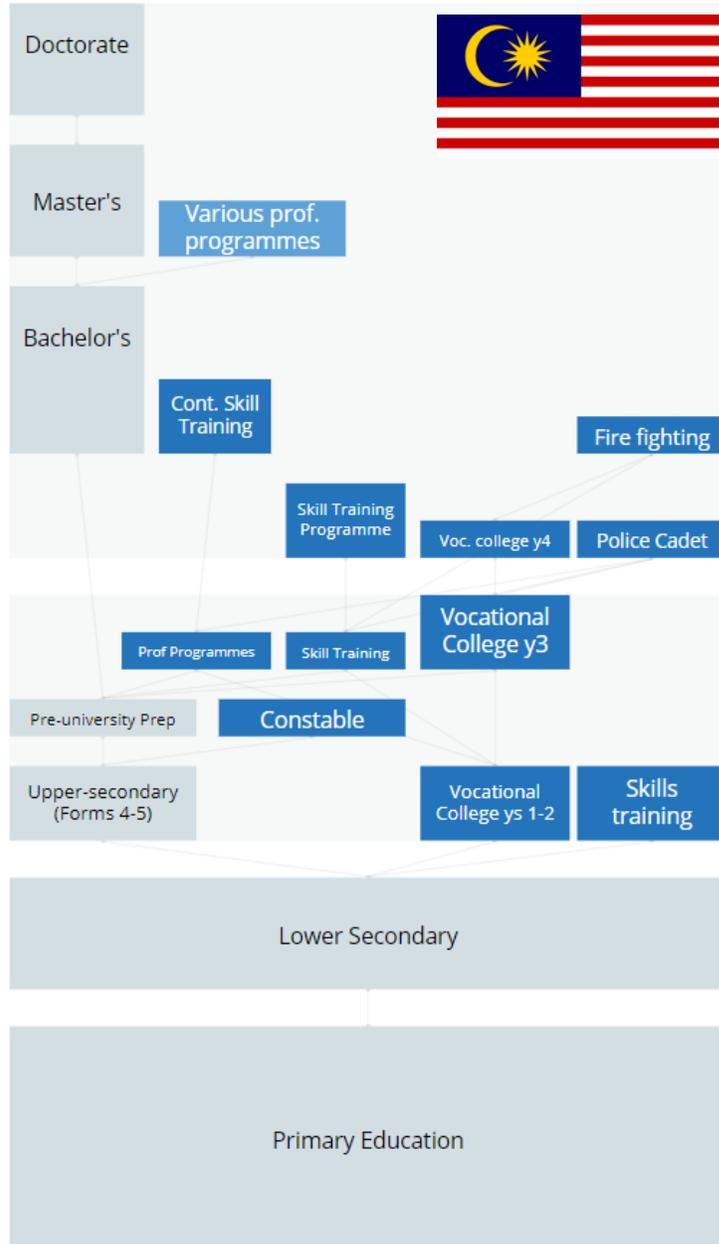


FRAMEWORKS...?

FORMAL EDUCATION SYSTEM

General/academic Vocational/professional
Combined/mixed

ISCED 5-8



ISCED 3

ISCED 2

ISCED 1

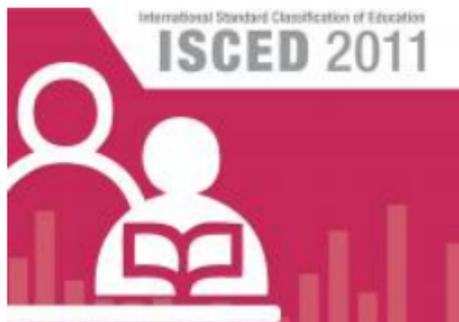


ISCED...??

The world's education systems vary widely in terms of structure and curricular content. Consequently, it can be difficult to compare national education systems with those of other countries or to benchmark progress towards national and international goals.

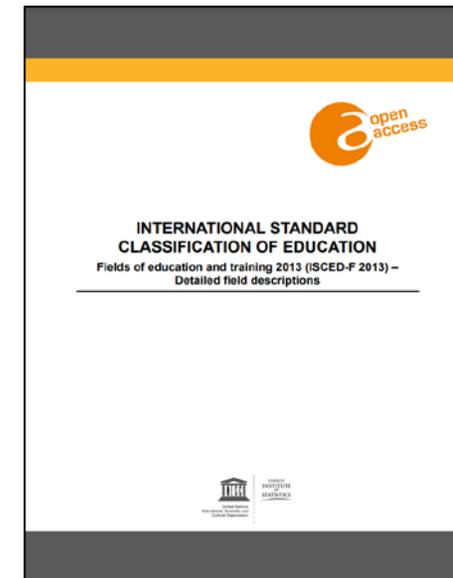
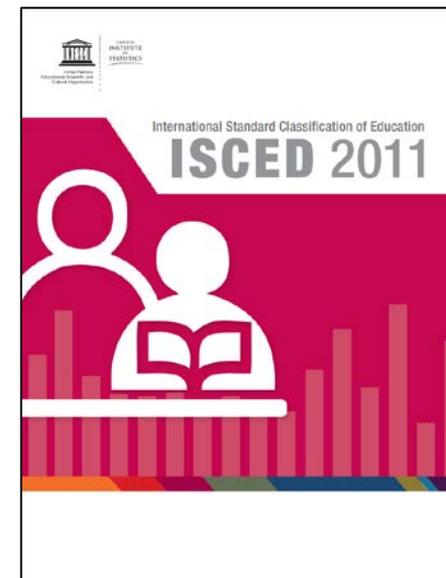
The International Standard Classification of Education (ISCED 2011) provides a comprehensive framework for **organising education programmes and qualification by applying uniform and internationally agreed definitions to facilitate comparisons of education systems across countries.** ISCED is a widely-used a global reference classification for education systems that is maintained and periodically revised by the UIS in consultation with Member States and other international and regional organizations. ISCED 2011 is the second major revision of this classification (initially developed in the 1970s and revised in [1997](#)). It was adopted by the UNESCO General Conference in November 2011.

QUESTIONNAIRE

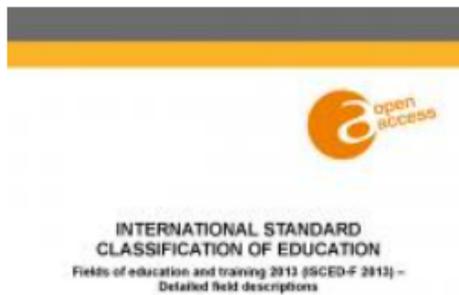


International Standard Classification of Education (ISCED) 2011

  [DOWNLOAD \(1.14 MB\)](#)  28/03/2018  PDF

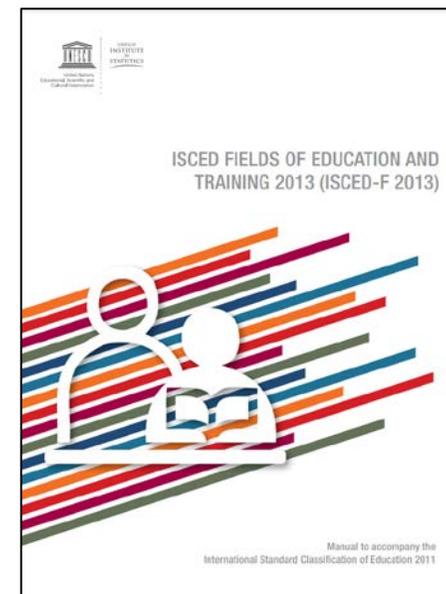


REPORT



International Standard Classification of Education: Fields of Education and Training 2013 (ISCED-F 2013) - Detailed Field Descriptions

  [DOWNLOAD \(575.17 KB\)](#)  28/11/2015  PDF



REPORT



ISCED Fields of Education and Training 2013 (ISCED-F 2013): Manual to Accompany the International Standard Classification of Education 2011

  [DOWNLOAD \(777.25 KB\)](#)  29/11/2014  PDF

<https://uis.unesco.org/en/topic/international-standard-classification-education-isced>

ALTERNATIVE ASSESSMENT IN HIGHER EDUCATION

A PRACTICAL GUIDE TO ASSESSING LEARNING

01

BEFORE THE 21ST CENTURY

KNOWLEDGE IS SEEN AS TRANSMITTED in nature, from educators (experts) to learners (novice). Educators often took the role as the whole knower and transmitter of knowledge, whilst learners were seen as merely receiver of the transmitted knowledge.

02

21ST CENTURY AND BEYOND

KNOWLEDGE IS CONSTRUCTED by learners and learning is mediated through various channels. Educators facilitate learning to ensure learners become engaged in learning, whilst making sense of knowledge.



This book serves as a quick practical guide would like to make a difference to their experiences especially in relation to assessment. Assessment provides possibilities and learning to be measured in a meaningful way for learners to complete the assessment given, in a fun way. Alternative Assessment involves the ability for learners to observe the transformation of their soft skills that may be challenging and almost impossible if conventional paper and pencil test type of assessment is done solely. Designing lessons and assessment in an alternative way ensures learners attain the outcomes of the courses and programmes eventually. Such activities related to alternative assessments like projects, case study, problem-based learning and even service-learning enable learners to make meaning of what they have learned in

as well as respecting the differences and challenges faced by the community that they are engaged in. This is in line with the aspiration that education should be focused on the love of acquiring knowledge and related to the Malaysian Education Blueprint for Higher Education. As a quick guide, introduction to alternative assessment is essential for a basic understanding before providing further details on considerations and ways for reporting learners' performance. This is then followed by sharing various ways of implementing alternative assessment in the context of higher education.

CHAPTER 1 CHANGING THE MINDSET: MAKING MEANINGFUL ASSESSMENT

Overview of the chapter

It is crucial to understand how knowledge is perceived before and after the 21st century in order for us to know what we need to do and where we are heading towards in helping to understand about assessing learners' learning. Terminologies that cause confusion will also be discussed in order to ensure that educators, no matter what their background may be, are clear on what they need to do.

This chapter also discusses the challenges that educators may face and the need to seek alternatives in assessing learners' learning.



MQF LEVEL	GRADUATING CREDIT	SECTOR		LIFELONG LEARNING
		ACADEMIC	TVET*	
8	No credit rating	PhD by Research		Accreditation of Prior Experiential Learning (APEL)
	80	Doctoral Degree by Coursework & Mixed Mode		
7	No credit rating	Master's Degree by Research		
	40	Master's Degree by Coursework & Mixed Mode		
	30	Postgraduate Diploma		
	20	Postgraduate Certificate		
6	120	Bachelor's Degree	Bachelor's Degree	
	64**	Graduate Diploma	Graduate Diploma	
	34**	Graduate Certificate	Graduate Certificate	
5	40	Advanced Diploma	Advanced Diploma	
4	90	Diploma	Diploma	
3	60	Certificate	Certificate	
2	30	Certificate	Certificate	
1	15	Certificate	Certificate	

* Technical and Vocational Education and Training

** Inclusive of 4 credits for U1 courses from general studies

Approved Centres

Malaysia - SHAH ALAM

[Mega Jati Academy](#)

Available courses

- Certified Construction Manager (Level 6)
- Certified Construction Project Management (Level 7)
- Certified Construction Site Supervisor (Level 5)
- Certified Construction Traffic Management Officer (Level 5)
- Certified Facility Management Executive (Level 5)
- Certified Facility Management Manager (Level 6)
- Certified Facility Management Professional (Level 7)
- Certified Facility Management Specialist (Airport and Ground Services) (Level 5)
- Certified Facility Management Specialist (Energy, Oil & Gas) (Level 5)
- Certified Facility Management Specialist (Healthcare Services) (Level 5)
- Certified Facility Management Specialist (Port & Harbour) (Level 5)
- Certified Facility Management Specialist (Railway Assets Management) (Level 5)
- Certified Facility Management Specialist (Road & Highway) (Level 5)
- Certified Facility Management Specialist (Water Services) (Level 5)

6.0 Occupational Area Structure

The occupational area structure for the Construction Project Manager in the Building & Construction within the Civil Engineering Sub-Sector noted for this document is highlighted in Table 2.

Table 2: Occupational Area Structure for Construction Project Management in Building and Construction – Sub-Sector of Civil Engineering

SECTOR	BUILDING & CONSTRUCTION
SUB SECTOR	BUILDING, CIVIL ENGINEERING
AREA	CONSTRUCTION
LEVEL 6	CONSTRUCTION PROJECT MANAGEMENT
LEVEL 5	CONSTRUCTION MANAGEMENT
LEVEL 4	CONSTRUCTION PROJECT COORDINATION/SITE MANAGEMENT
LEVEL 3	CONSTRUCTION PROJECT SUPERVISION
LEVEL 2	SKILL CONSTRUCTION OPERATION
LEVEL 1	GENERAL

Table 3: The Competency Levels in Building and Construction – Sub-Sector of Civil Engineering

Malaysia Skills Certificate Level 1: (Operation Level)	Competent in performing a range of varied work activities, most of which are routine and predictable.
Malaysia Skills Certificate Level 2: (Operation Level)	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non-routine and require individual responsibility and autonomy.
Malaysia Skills Certificate Level 3: (Supervisory Level)	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non-routine. This also include taking a considerable amount of responsibility, autonomy and control, and guidance others to perform the tasks.
Malaysia Skills Diploma Level 4: (Executive Level)	Competent in performing a broad range of complex technical or professional work activities which takes place within a variety of contexts with autonomy. This also include in-part taking responsibility over the allocation of resources and work of others.
Malaysia Skills Advanced Diploma Level 5: (Managerial Level)	Competent in performing a range of duties which involves the application of complex techniques within a wide range and often unpredictable circumstances. This include taking significant responsibility for the work of others, allocation of substantial resources and the planning, organising, monitoring and control of the project processes.
Malaysia Skills Degree LEVEL 6: (Strategic Level)	Competent in applying a significant range of fundamental principles and complex technique across a wide and often significant responsibilities for the work of others and for the allocation of substantial resources featured strongly, as do diagnosis, responsible for planning, execution to underpin substantial change or development, and evaluation. as well as exercising broad autonomy and judgment



**CONSTRUCTION INDUSTRY
COMPETENCY STANDARD
(CICS)**

**CERTIFIED CONSTRUCTION
PROJECT MANAGER (CCPM)**

Code: CPM6



The Construction Industry Competency Standard (CICS) for construction personnel is developed to specify the minimum level of competencies for Malaysian construction industry. CICS is defined as the specification of competencies expected of construction personnel that been employed by a construction project organisation to effectively manage construction projects.


CONSTRUCTION SKILLS QUALIFICATIONS FRAMEWORK (CSQF)
CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
TRAINING PROGRAMME ACCREDITATION
CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
INSTITUTIONAL COMPLIANCE AUDIT
CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB)


CODE OF PRACTICE FOR
CONSTRUCTION PERSONNEL ACCREDITATION
CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB)



The acronym NOSS stands for National Occupational Skills Standards. NOSS is defined as a document that specifies the competencies expected of a skilled worker who is gainfully employed in Malaysia for an occupational area and level and pathway to achieve the competencies.

DEVELOPMENT & VALIDATION PROCESS THROUGH...




**CONSTRUCTION INDUSTRY
COMPETENCY STANDARD
(CICS)**

**CERTIFIED CONSTRUCTION
PROJECT MANAGER (CCPM)**
Code: CPM6


LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA




**CONSTRUCTION
SKILLS
QUALIFICATIONS
FRAMEWORK (CSQF)**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)


**CODE OF PRACTICE FOR
TRAINING
PROGRAMME
ACCREDITATION**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)


**CODE OF PRACTICE FOR
INSTITUTIONAL
COMPLIANCE AUDIT**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)

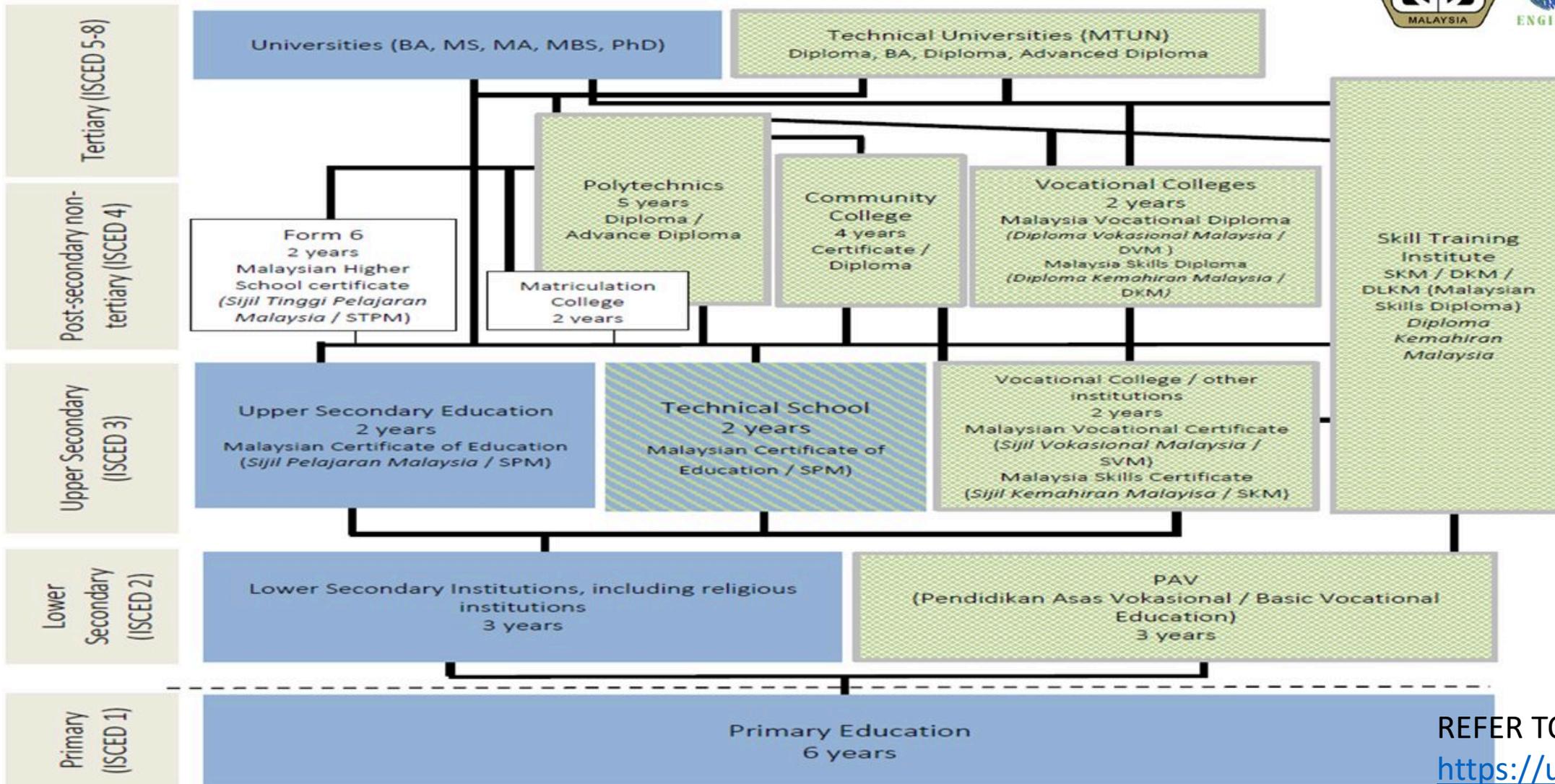

**CODE OF PRACTICE FOR
CONSTRUCTION
PERSONNEL
ACCREDITATION**
CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)



CONSTRUCTION SKILLS QUALIFICATION FRAMEWORKS (CSQF)

1. TVET systems

TVET in the Malaysian education system⁶



- General education
- TVET
- TVET as an optional subject
- Additional qualification

- Compulsory education
- Education Pathway
- Additional education / qualification pathways

REFER TO:
<https://unevoc.unesco.org/home/Dynamic+TVET+Country+Profiles/country=MYS>



MQF LEVEL	GRADUATING CREDIT	SECTOR		Lifelong Learning
		ACADEMIC	TVET *	
8	No credit rating	PhD by Research		Accreditation of Prior Experiential Learning (APEL)
	80	Doctoral Degree by Mixed Mode & Coursework		
7	No credit rating	Master's by Research		
	40	Master's by Mixed Mode & Coursework		
	30	Postgraduate Diploma		
	20	Postgraduate Certificate		
6	120	Bachelor's degree		
	66 **	Graduate Diploma		
	36 **	Graduate Certificate		
5	40	Advanced Diploma	Advanced Diploma	
4	90	Diploma	Diploma	
3	60	Certificate	Certificate	
2	30	Certificate	Certificate	
1	15	Certificate	Certificate	

* Technical and Vocational Education and Training

** Inclusive of 6 credits for U1 courses from general studies



PENGAKREDITAN PEMBELAJARAN BERASASKAN PENGALAMAN TERDAHULU

BAGI MEMBOLEHKAN INDIVIDU SAMBUNG BELAJAR DI PPT SETELAH LULUS PENILAIAN APEL.A

APEL.A
AKSES KE PPT

SIAPA YANG LAYAK MOHON?



Warganegara Malaysia

- Umur minimum :
 - SUJIL - 19 tahun
 - DIPLOMA - 20 tahun
 - SARJANA MUDA - 21 tahun
 - SARJANA - 30 tahun

KELAYAKAN FORMAL?



- Hanya penilaian untuk ke program Sarjana perlu ada STPM/Diploma/Setara.
- Memiliki pengalaman yang berkaitan sama ada formal atau tidak formal.

BAGAIMANA HENDAK MEMOHON?
Sila layari
www2.mqa.gov.my/apel_a/

KAEDAH PENILAIAN:

- Ujian Aptitud: Empat aspek diuji (Bahasa Melayu, Bahasa Inggeris, Matematik dan Pengetahuan Am/Pemikiran Kritis).
- Portfolio: Kompilasi pengalaman pembelajaran formal, non-formal dan informal. Format ditetapkan.
- Temu duga dengan dua orang panel penemu duga bagi calon APEL T-7 sahaja.

BAGI MENILAI ILMU YANG TERKUMPUL MENERUSI PENGALAMAN PEMBELAJARAN DAN MENDAPAT PENGECCUALIAN KURSUS/MATA PELAJARAN

APEL.C
PINDAH KREDIT

UNTUK SIAPA?



Warganegara Malaysia dan bukan warganegara.



Pelajar PPT yang mempunyai pengalaman pembelajaran terdahulu yang telah berdaftar dan sedang mengikuti pengujian sama ada melalui kemasukan secara konvensional atau melalui APEL.A.

SIAPA KENDALIKAN PENILAIAN APEL.C?



- PPT yang diluluskan oleh MQA.
- PPT perlu mematuhi polisi APEL.C.

BAGAIMANA HENDAK MEMOHON?

- Permohonan di PPT yang diluluskan oleh MQA.

BAGAIMANA BENTUK PENILAIAN APEL.C?

- Bergantung kepada kursus yang ingin dimohon pindah kredit.
- Kaedah penilaian yang boleh diguna pakai adalah Challenge Test atau Portfolio.
- Prinsip penilaian APEL.C adalah memadamkan kompetensi pelajar dengan Course Learning Outcome (CLO).

BERAPA HAD MAKSIMUM PINDAH KREDIT?

30% daripada jumlah kredit bergraduasi.

BAGI MENILAI ILMU YANG DIPEROLEH DARIPADA PENGALAMAN PEMBELAJARAN TERDAHULU UNTUK DIANUGERAHKAN KELAYAKAN AKADEMIK TANPA PERLU MENGIKUTI KESELURUHAN PROGRAM PENGAJIAN DI PPT

APEL.Q
PENGANUGERAHAN KELAYAKAN

UNTUK SIAPA?



Warganegara Malaysia dan bukan warganegara.

- Memenuhi tempoh minimum pengalaman kerja pada tahap yang bersesuaian dalam bidang berkaitan iaitu

SIAPA YANG KENDALIKAN APEL.Q?



- PPT yang mempunyai kelulusan mengendalikan APEL.C dan APEL.Q.
- PPT perlu mematuhi polisi APEL.Q MQA.
- Hanya terpakai bagi program yang telah mendapat Akreditasi Penuh MQA.

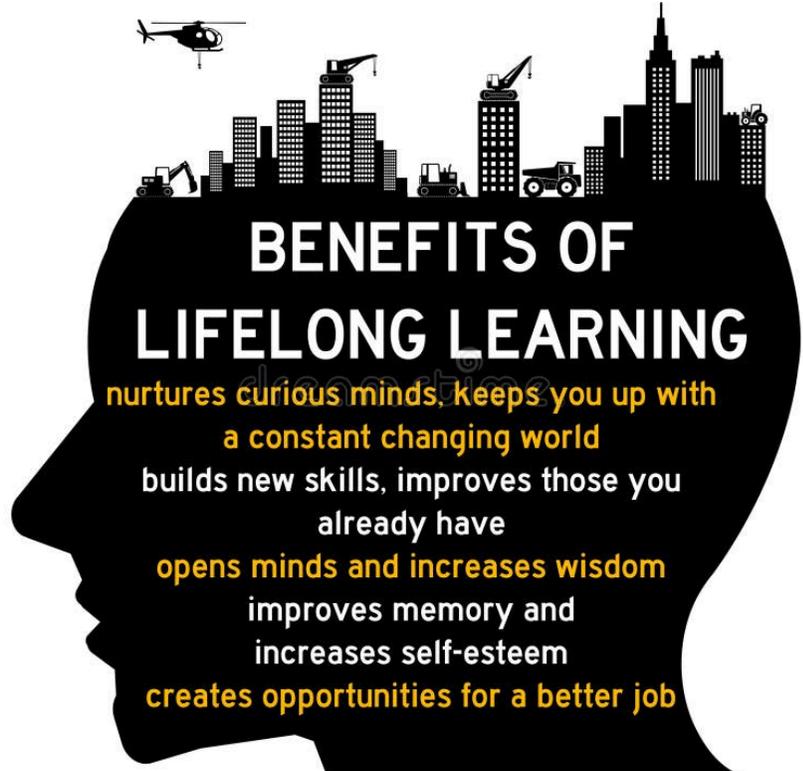
KAEDAH PENILAIAN APEL.Q

- Penilaian terdiri daripada empat instrumen utama iaitu Portfolio, Lawatan Lapangan dan Pengesahan, Challenge Test dan wajib mengikut serta lulus kursus Capstone seperti yang ditetapkan dalam program.

BAGAIMANA HENDAK MEMOHON?
Sila layari
www2.mqa.gov.my/APEL/APEL_Q/
permohonan calon.cfm

TAHAP MQF	KELAYAKAN	TAHUN PENGALAMAN KERJA MINIMUM DALAM BIDANG BERKAITAN
3	Sijil	3 tahun
4	Diploma	10 tahun
5	Diploma Lanjutan	12 tahun
6	Sarjana Muda	15 tahun
7	Sarjana	20 tahun
8	Endoktoran	25 tahun

MAKLUMAT LANJUT SILA LAYARI :
<https://www2.mqa.gov.my/APEL/>
03 - 86881900



BENEFITS OF LIFELONG LEARNING
 nurtures curious minds, keeps you up with a constant changing world
 builds new skills, improves those you already have
 opens minds and increases wisdom
 improves memory and increases self-esteem
 creates opportunities for a better job

**HELLO I AM A...
LIFELONG LEARNER**



*Nota: PPT adalah Pemberi Pendidikan Tinggi
MQF adalah Malaysian Qualifications Framework
STPM adalah Sijil Tinggi Persekolahan Malaysia



COPP ±
Code of Practice for Programme Accreditation

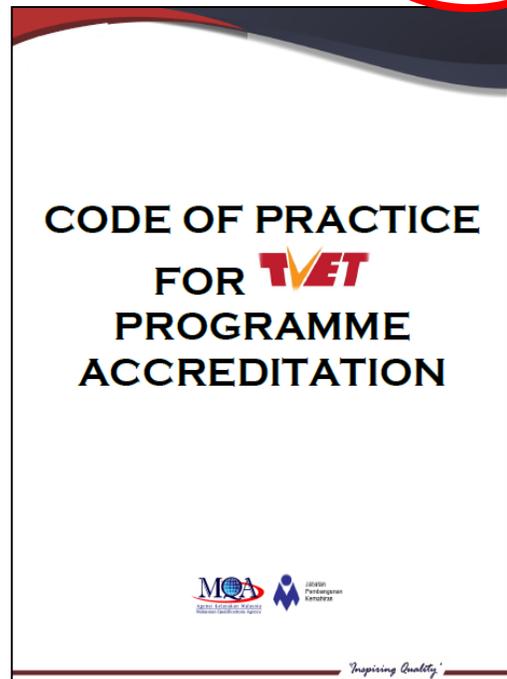


KAPPK
Kod Amalan Pentauliahan Program Kemahiran



ACT 679 ±
Malaysian Qualifications Agency Act 2007

ACT 652
National Skills Development Act 2006



before

Penganugerahan Sijil

Seksyen 34

Ketua Pengarah boleh menganugerahkan kepada mana-mana orang apabila menepati Standard dengan kelayakan kemahiran

yang berikut:

- (a) Sijil Kemahiran Malaysia;
- (b) Diploma Kemahiran Malaysia;
- (c) Diploma Lanjutan Kemahiran Malaysia;
- (d) Penyata Pencapaian

Seksyen 34

AFTER

(i) Ketua Pengarah boleh menganugerahkan kepada mana-mana orang apabila menepati Standard dengan kelayakan kemahiran yang berikut:

- (a) Sijil Kemahiran Malaysia;
- (b) Diploma Kemahiran Malaysia;
- (c) Diploma Lanjutan Kemahiran Malaysia;
- (d) Penyata Pencapaian
- (e) Sijil Modular Kemahiran
- (f) Ijazah Sarjana Muda Kemahiran Malaysia dengan kepujian;
- (g) Ijazah Sarjana Kemahiran Malaysia;
- (h) Ijazah Kedoktoran Kemahiran Malaysia; atau

35 A Kenendak membuat verifikasi persijilan

Ketua Pengarah boleh melantik mana2 orang atau individu yang berkelayakan bagi pelaksanaan dibawah seksyen 35.

6.0 Occupational Area Structure

The occupational area structure for the Construction Project Manager in the Building and Construction within the Civil Engineering Sub-Sector noted for this document is as highlighted in Table 2.

Table 2: Occupational Area Structure for Construction Project Management in Building and Construction – Sub-Sector of Civil Engineering

SECTOR	BUILDING & CONSTRUCTION
SUB SECTOR	BUILDING, CIVIL ENGINEERING
AREA	CONSTRUCTION
LEVEL 6	CONSTRUCTION PROJECT MANAGEMENT
LEVEL 5	CONSTRUCTION MANAGEMENT
LEVEL 4	CONSTRUCTION PROJECT COORDINATION/SITE MANAGEMENT
LEVEL 3	CONSTRUCTION PROJECT SUPERVISION
LEVEL 2	SKILL CONSTRUCTION OPERATION
LEVEL 1	GENERAL

Table 3: The Competency Levels in Building and Construction – Sub-Sector of Civil Engineering

Malaysia Skills Certificate Level 1: (Operation Level)	Competent in performing a range of varied work activities, most of which are routine and predictable.
Malaysia Skills Certificate Level 2: (Operation Level)	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non-routine and require individual responsibility and autonomy.
Malaysia Skills Certificate Level 3: (Supervisory Level)	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non-routine. This also include taking a considerable amount of responsibility, autonomy and control, and guidance others to perform the tasks.
Malaysia Skills Diploma Level 4: (Executive Level)	Competent in performing a broad range of complex technical or professional work activities which takes place within a variety of contexts with autonomy. This also include in-part taking responsibility over the allocation of resources and work of others.
Malaysia Skills Advanced Diploma Level 5: (Managerial Level)	Competent in performing a range of duties which involves the application of complex techniques within a wide range and often unpredictable circumstances. This include taking significant responsibility for the work of others, allocation of substantial resources and the planning, organising, monitoring and control of the project processes.
Malaysia Skills Degree LEVEL 6:(Strategic Level)	Competent in applying a significant range of fundamental principles and complex technique across a wide and often significant responsibilities for the work of others and for the allocation of substantial resources featured strongly, as do diagnosis, responsible for planning, execution to underpin substantial change or development, and evaluation. as well as exercising broad autonomy and judgment

Technical and Vocational Education Training (TVET) and Its Landscape in Malaysia



NATIONAL TVET PROVIDER LANDSCAPE

11 MINISTRIES

640 PUBLIC TVET INSTITUTIONS

22 STATE GOVERNMENT TVET INSTITUTIONS

633 PRIVATE TVET INSTITUTIONS

MINISTRY OF EDUCATION
Kolej Vokasional (87)
87

MINISTRY OF HIGHER EDUCATION
MTUN (4)
Politeknik (36)
Kolej Komuniti (104)
144

MINISTRY OF WORKS
Akademik Binaan Malaysia (11)
11

MINISTRY OF RURAL DEVELOPMENT
KEMAS (2)
Kolej KEDA (1)
PERDA – TECH (1)
MARA:
MJII (1)
IKM (14)
KKTM (10)
Giat MARA (231)
UNIKL (13)
GMI (1)
274

MINISTRY OF HUMAN RESOURCES
ILP (23)
ADTEC (8)
JMTI (1)
CIAST (1)
33

MINISTRY OF YOUTH AND SPORTS
IKTBN (8)
IKBN (13)
AKBG (1)
22

MINISTRY OF AGRICULTURE AND FOOD INDUSTRIES
Institut Latihan Pertanian (15)
15

MINISTRY OF WOMEN, FAMILY AND COMMUNITY DEVELOPMENT
PLPP (1)
Bengkel Daya (2)
3

MINISTRY OF DEFENCE
PERHEBAT (1)
1

MINISTRY OF HOME AFFAIRS
Care and Care Vocational Center (1)
Pusat Vokasional Industri (43)
Pusat Latihan Kemahiran Kem (6)
48

MINISTRY OF TOURISM, ARTS AND CULTURE
ASWARA (1)
Institut Kraf Negara (1)
2

22 STATE GOVERNMENT TVET INSTITUTIONS

PRIVATE SKILLS TRAINING INSTITUTIONS
PRIVATE HIGHER EDUCATION INSTITUTIONS
633

1295
TVET INSTITUTIONS
(as of 11 February 2021)



majlistvetnegara



majlistvetnegara





REGULATORY BODY	LEMBAGA JURUTERA MALAYSIA (BEM) BOARD OF ENGINEERS MALAYSIA	LEMBAGA TEKNOLOGIS MALAYSIA (MBOT) MALAYSIA BOARD OF TECHNOLOGIST	LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB) CONSTRUCTION INDUSTRY DEVELOPMENT BOARD MALAYSIA
DIPLOMA CATEGORIZATION	DIPLOMA IN ENGINEERING DIPLOMA IN ENGINEERING TECHNOLOGY)	DIPLOMA IN ENGINEERING DIPLOMA IN ENGINEERING TECHNOLOGY DIPLOMA IN TECHNOLOGY	NOT APPLICABLE
GENERAL NAMING IN SHORT	Dip. Eng / Dip. Eng. Tech.	Dip. Eng / Dip. Eng. Tech./ Dip. Tech.	NOT APPLICABLE
ACCREDITED BODY	BOARD OF ENGINEERS MALAYSIA (BEM)	MALAYSIA BOARD OF TECHNOLOGIST (MBOT)	CONSTRUCTION INDUSTRY DEVELOPMENT BOARD MALAYSIA
ACCREDITATION COUNCIL / AGENCY	ENGINEERING TECHNOLOGY ACCREDITATION COUNCIL (ETAC)	TECHNOLOGY AND TECHNICAL ACCREDITATION COUNCIL (TTAC)	METHOD OF ASSESSMENT WITH CIDB OR CERTIFIED TRAINING PROVIDER CIDB (PLB)
INTERNATIONAL RECOGNITION AT DIPLOMA LEVEL	INTERNATIONAL ENGINEERING ALLIANCE, IEA, https://www.ieagreements.org/accords/acknowledgements-accords/ (DUBLIN ACCORD)	NIL	NIL
WEBPAGE FOR REFERENCE	http://etac.org.my/	http://www.ttasmbot.org.my/	http://www.cidb.gov.my/index.php/en/media-1/download-form
SOURCE OF POWER	REGISTRATION OF ENGINEERS ACT 1967 (ACT 138) REV 2015 MALAYSIAN QUALIFICATION AGENCY ACT (ACT 679) (2007)	TECHNOLOGIST AND TECHNICIAN ACT 2015 (ACT 768)	CONSTRUCTION INDUSTRY DEVELOPMENT BOARD ACT 1994 (ACT 520) REV 2015
ACT'S COPY	http://www.bem.org.my/documents/20181/43360/REA2015.pdf/207ca71e-8a11-4252-9821-b409db12e2c1	https://www.mbot.org.my/act-regulation/act-regulation/	http://www.cidb.gov.my/images/content/akta/Act-520-As-at-1-October-2015.pdf
ACCREDITATION DOCUMENTS NAME	ENGINEERING TECHNICIAN EDUCATION PROGRAMME ACCREDITATION STANDARD 2020	TECHNOLOGY AND TECHNICAL ACCREDITATION MANUAL 2019	NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS) LEVEL 4
LIST OF ACCREDITED DIPLOMA PROGRAM	http://etac.org.my/diploma-programme/list-accreditation-for-diploma/	https://www.mbot.org.my/accreditation/mbot-accredited-programmes/	CSS (CIVIL AND STRUCTURE) CSS (BUILDING & ARCHITECTURE) CSS (MECHANICAL WORKS) CSS (ELECTRICAL WORKS)



REGULATORY BODY	LEMBAGA JURUTERA MALAYSIA (BEM) BOARD OF ENGINEERS MALAYSIA	LEMBAGA TEKNOLOGIS MALAYSIA (MBOT) MALAYSIA BOARD OF TECHNOLOGIST	CONSTRUCTION INDUSTRY EVELOPMENT BOARD MALAYSIA (CIDB)
ACCREDITATION MANUAL	http://etac.org.my/wp-content/uploads/2020/04/Engineering-Technician-Education-Programme-Accreditation-Standard-2020.pdf	https://www.mbot.org.my/accreditation/ttas-ttac-manual/	NOSS LEVEL 4 PROGRAM CURICULUM CERTIFIED TRAINING CENTRE MODULES
REGISTRATION AFTER GRADUATION	INTERN INSPECTOR OF WORKS (IoW)	QUALIFIED TECHNICIAN, MBOT	NOT APPLICABLE
ACT'S REFERENCE CLAUSE	<p>IOW – BEM Intern IoW for fresh Diploma Graduates</p> <p>10E. A person who holds any qualification which is recognized by the Board shall be entitled on application to be registered as an Inspector of Works.</p> <p>7(2)(ab) an Inspector of Works who is registered with the Board may, subject to Section 8, take up employment which requires him to assist the Professional Engineer in the supervision of engineering works.</p>	<p>QUALIFIED TECHNICIAN, MBOT</p> <p>22(1) Subject to this Act, a person who holds a certificate qualification recognized by the Board may apply to be registered as a Qualified Technician upon payment of the prescribed fee.</p> <p>22(4) Upon application made under subsection (3), and based on the criteria as may be determined by the Board, the Board may approve the registration of a Qualified Technician as a Certified Technician.</p>	<p>CERTIFIED CONSTRUCTION SITE SUPERVISOR (CSS), CIDB</p> <p>33A. (1) No construction site supervisor or skilled construction worker shall be involved or engaged, or undertake to be involved or engaged as a construction site supervisor or skilled construction worker unless he is accredited and certified by the Lembaga and holds a valid certificate issued by the Lembaga under this Act.</p>
NAME AFTER ASSESSMENT	INSPECTOR OF WORKS (IoW)	CERTIFIED TECHNICIAN, (C. TECH)	CERTIFIED SITE SUPERVISOR (CSS)
ABBREVIATION POST ASSESSMENT	NIL	C. Tech, MBOT	NIL
PRE-NAME TITLE	NIL	Tc.	NIL
SUITABLE DIPLOMA GRADUATES AREA	Civil, Mechanical, Electrical, any that is appropriate http://www.bem.org.my/web/guest/inspector-of-works	23 areas of Recognized Technologies Fields https://www.mbot.org.my/technology-fields/what-is-mbot%E2%80%99s-recognized-technology-fields/	Civil, Structure, Building, Architecture, Mechanical, Electrical, Electronics, Building Services, Construction Technology
REGISTRATION	MANDATORY REGISTRATION TO BE EMPLOYED AS IoW,	VOLUNTARY REGISTRATION	MANDATORY REGISTRATION TO BE EMPLOYED AS CSS



PROMOTING LEARNING FOR THE WORLD OF WORK



The UNEVOC Network is UNESCO's global network for TVET institutions



unesco
International Centre for
Technical and Vocational
Education and Training



UNEVOC NETWORK:
Perspectives for OER in Technical and Vocational Education and Training (TVET)
Harnessing the potential of OER to support skills for work



United Nations
Educational, Scientific and
Cultural Organization



International Centre
for Technical and Vocational
Education and Training



**GOING
GLOBAL**



unesco

International Centre for
Technical and Vocational
Education and Training



About Us Our Network Skills for Work and Life Knowledge Resources



Photo by PopTika/Shutterstock

Innovation and the Future of TVET

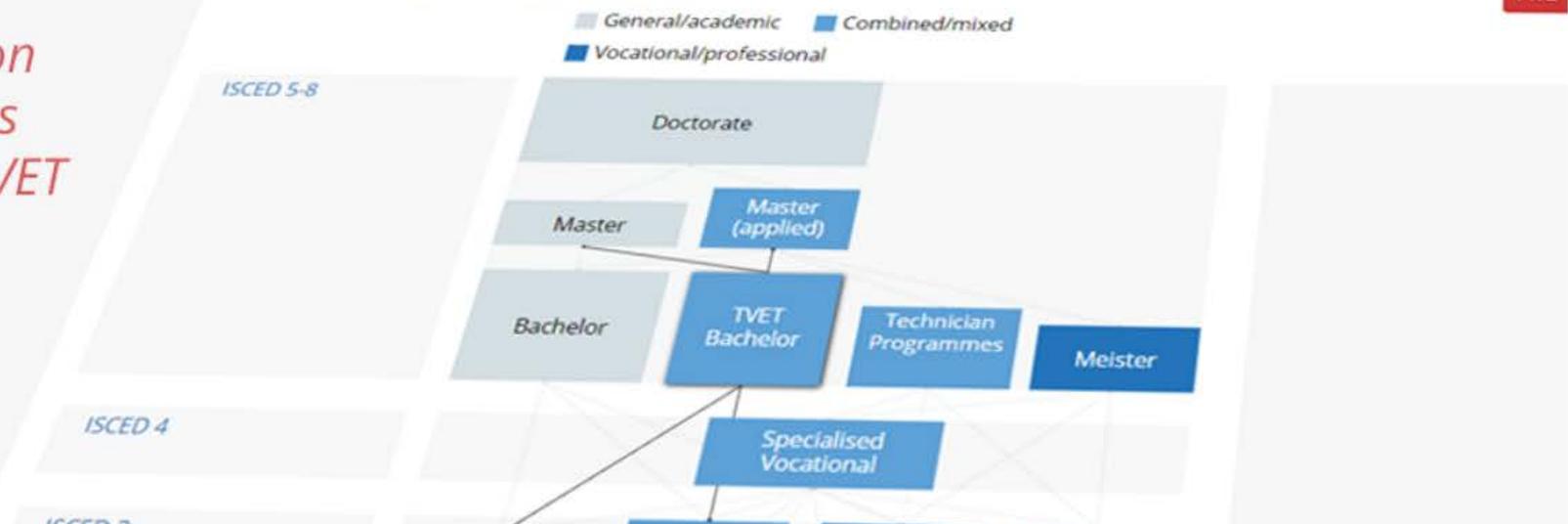
<https://unevoc.unesco.org/home/>

UNEVOC TVET Country Profiles

Key information on education systems with a focus on TVET



FORMAL EDUCATION SYSTEM





EN English

Home > The European Qualifications Framework (EQF)

Big thanks to our 5 million registered Europass users marking the European Year of Skills and the third anniversary of this platform!

europass Europass tools Learn in Europe Work in Europe About Europass Stakeholders

Login to Europass

The European Qualifications Framework

The EU developed the **European Qualifications Framework (EQF)** as a translation tool to make national qualifications easier to understand and more comparable. The EQF seeks to support cross-border mobility of learners and workers, promote lifelong learning and professional development across Europe.



ASEAN Qualifications Reference Framework

What is ASEAN Qualifications Reference Framework?

The ASEAN Qualifications Reference Framework (AQRF) is a common reference framework that enables comparisons of education qualifications across participating ASEAN Member States (AMS).

The objectives of AQRF include:

- Support recognition of qualifications
- Encourage the development of qualifications frameworks that can facilitate lifelong learning
- Encourage the development of national approaches to validating learning gained outside formal education
- Promote and encourage education and learner mobility
- Support worker mobility
- Improve understanding of qualifications systems
- Promote higher quality qualifications systems

CERTIFIED CONSTRUCTION PROJECT MANAGEMENT (LEVEL 7)

This is to certify that

MUHAMMAD ARKAM CHE MUNAAIM

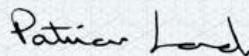
has successfully completed an approved programme at

MEGA JATI ACADEMY

Awarded on 05 November 2021

European Qualifications Framework (EQF) Level 7
LRN: 210630034 | 241277 | DC2012488 | ELP: MJA210301
This certificate should be read in conjunction with the accompanying transcript

Issued on 18 February 2022



Patricia Land
Responsible Officer
OTHM Qualifications

ELECTRONIC
DOCUMENT

SCAN TO VERIFY



TRANSCRIPT OF ACADEMIC RECORD

MUHAMMAD ARKAM CHE MUNAAIM

CERTIFIED CONSTRUCTION PROJECT MANAGEMENT (LEVEL 7)

The learner has been awarded the following credits for achieving the required learning outcomes of the unit(s) listed

MEGA JATI ACADEMY

UNIT REF	TITLE	LEVEL	CREDIT	ECTS	GRADE
CPM07070	FUNDAMENTAL OF PROJECT MANAGEMENT COMPETENCY	7	6	3	PASS
CPM07071	PROJECT INITIATION & STAKEHOLDERS MANAGEMENT	7	12	6	PASS
CPM07072	CONCEPTUAL DESIGN & PRELIMINARY ESTIMATE	7	6	3	PASS
CPM07073	PROCUREMENT MANAGEMENT	7	6	3	PASS
CPM07074	PROJECT PLAN, MONITORING AND CONTROL	7	12	6	PASS
CPM07075	PROJECT FINANCIAL MANAGEMENT	7	6	3	PASS
CPM07076	DESIGN DEVELOPMENT & AUTHORITY LIAISON	7	12	6	PASS
CPM07077	QUALITY MANAGEMENT	7	6	3	PASS
CPM07078	HEALTH & SAFETY MANAGEMENT	7	6	3	PASS
CPM07079	SUSTAINABILITY & ENVIRONMENTAL MANAGEMENT	7	6	3	PASS
CPM07080	VALUE, TENDER & CONTRACT MANAGEMENT	7	6	3	PASS
CPM07081	DISPUTE RESOLUTION	7	6	3	PASS
CPM07082	RISK MANAGEMENT	7	6	3	PASS
CPM07083	PROJECT HANDOVER AND CLOSE-OUT	7	6	3	PASS
CPM07084	OPERATION AND MAINTENANCE	7	6	3	PASS
CPM07085	PROJECT PEOPLE & TEAM MANAGEMENT	7	6	3	PASS
CPM07086	PROFESSIONAL ETHICS & ENTREPRENEURSHIP	7	6	3	PASS

TOTAL CREDIT ACHIEVED: 120 | TOTAL ECTS CREDIT ACHIEVED: 60 | GRADING TYPE: PASS / FAIL

Language of Assessment: English

European Qualifications Framework (EQF) Level 7
LRN: 210630034 | 241277 | DC2012488 | ELP: MJA210301
The learner has qualified for the above award on 05 November 2021

Issued on 18 February 2022



Patricia Land
Responsible Officer
OTHM Qualifications

ELECTRONIC
DOCUMENT

SCAN TO VERIFY



This is to certify that

MUHAMMAD ARKAM CHE MUNAAIM

has successfully completed an approved programme at

MEGA JATI ACADEMY

Awarded on 05 November 2021

European Qualifications Framework (EQF) Level 7
LRN: 210630034 | 241277 | DC2012488 | ELP: MJA210301

This certificate should be read in conjunction with the accompanying transcript

Issued on 18 February 2022



TOTAL ECTS CREDIT ACHIEVED: 60

MAINTENANCE	7	6
LEADERSHIP & TEAM MANAGEMENT	7	6
TECHNICAL SKILLS & ENTREPRENEURSHIP	7	6

TOTAL CREDIT ACHIEVED: 120 | TOTAL ECTS CREDIT ACHIEVED: 60 | GRADING TYPE: PASS / FAIL

Language of assessment: English

European Qualifications Framework (EQF) Level 7
LRN: 210630034 | 241277 | DC2012488 | ELP: MJA210301

The learner has qualified for the above award on 05 November 2021

Issued on 18 February 2022

European Credit Transfer and Accumulation System (ECTS)

What is the European Credit Transfer and Accumulation System?

The European Credit Transfer and Accumulation System (ECTS) is a tool of the [European Higher Education Area](#) for making studies and courses more transparent. It helps students to **move between countries** and to have their academic qualifications and study periods abroad recognised. ECTS allows credits taken at one higher education institution to be counted towards a qualification studied for at another. ECTS credits represent learning based on defined learning outcomes and their associated workload.

ECTS enhances the flexibility of study programmes for students. It is a central tool in the [Bologna Process](#), which aims to make national education systems more comparable internationally. ECTS also helps make other documents, such as the [Diploma Supplement](#), clearer and easier to use in different countries. ECTS has been adopted by most of the countries in the European Higher Education Area as the national credit system and is **increasingly used elsewhere**.

Why is ECTS needed?

Differences between national higher education systems can lead to problems concerning the [recognition of qualifications](#) and [mobility periods abroad](#). This issue is addressed in part by enhancing the comprehension of the learning outcomes and workload of programmes of study. ECTS also makes it **possible to blend different learning styles**, such as **university and work-based learning**, within the same programme of study or through lifelong learning.

Source: [https://education.ec.europa.eu/education-levels/higher-education/inclusive-and-connected-higher-education/european-credit-transfer-and-accumulation-system#:~:text=The%20European%20Credit%20Transfer%20and%20Accumulation%20System%20\(ECTS\)%20is%20a,and%20study%20periods%20abroad%20recognised.](https://education.ec.europa.eu/education-levels/higher-education/inclusive-and-connected-higher-education/european-credit-transfer-and-accumulation-system#:~:text=The%20European%20Credit%20Transfer%20and%20Accumulation%20System%20(ECTS)%20is%20a,and%20study%20periods%20abroad%20recognised.)

The European Credits Transfer System known as the ECTS is a points **system used by European countries for international admissions**. The system ensures students can study and live in different European nations during their studies. In ECTS, 60 credits represent the workload of a normal undergraduate academic year of study. **30 credits are allocated for a semester** and 20 credits for a term. A postgraduate academic year for 12 months has 90 credits.



Education 2030

Education & skills development are central to the realization of the 2030 Agenda for Sustainable Development

The UNEVOC Network is UNESCO's global network for institutions specialized in technical and vocational education and training (TVET). The Network is comprised of more than 250 UNEVOC Centres in 166 Member States across 5 regions:

- Africa
- Arab States
- Asia and the Pacific
- Europe, CIS and North America
- Latin America and the Caribbean.

Coordinated by UNESCO-UNEVOC, the Network provides a platform for exchange, cooperation and mutual assistance for its members by linking and fostering interaction and learning among diverse TVET institutions and stakeholders around the world. We at the UNESCO-UNEVOC International Centre undertake our activities through this knowledge-rich and extensive community.

SUSTAINABLE DEVELOPMENT GOALS



4 QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

TARGET	4-3	TARGET	4-4	TARGET	4-5
	EQUAL ACCESS TO AFFORDABLE TECHNICAL, VOCATIONAL AND HIGHER EDUCATION		INCREASE THE NUMBER OF PEOPLE WITH RELEVANT SKILLS FOR FINANCIAL SUCCESS		ELIMINATE ALL DISCRIMINATION IN EDUCATION



?



**WHAT
NEXT**

dreamstime

FOUR STEPS CERTIFICATION PROCESS



**ENTER JOB
MARKET**

**ON JOB
LEARNING /
SELF
LEARNING**

**SUFFICIENT
PAST
LEARNING
EXPERIENCE**

ENTRY

**MEET MINIMUM
CERTIFICATION
CRITERIA**

EXPERIENCE

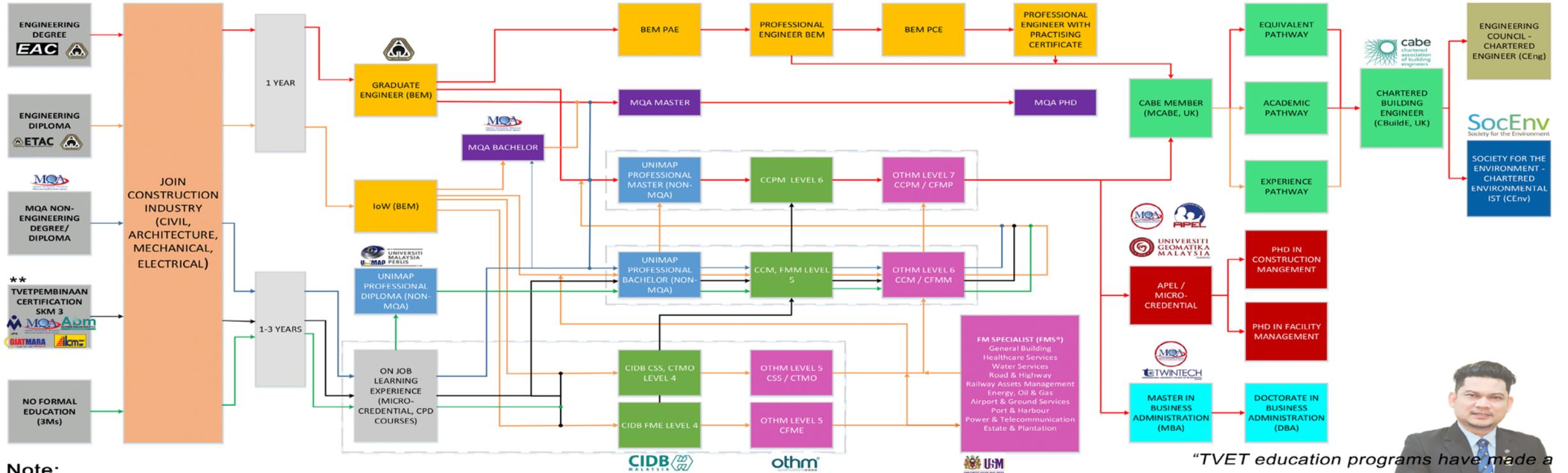
**RECOGNIZED BY
SUPERIOR / PEER
WITH
STRUCTURED
EVIDENCE
DOCUMENTATION
PROCESS**

QUALIFIED

**PROOF OF
ATTAINMENT
ON JOB
CHARACTER
BASED ON
PROGRAM
OUTCOMES AND
SUCCESSFULLY
SUBMITTED
EVIDENCE**

CERTIFIED

**GET
CERTIFICATION
FROM OTHM AS
RECOGNITION OF
PAST LEARNING
EXPERIENCE VIA
SPECIFIC AND
MEASUREABLE
ASSESSMENT
PROCESS UNDER
QUALIFICATION
FRAMEWORKS**



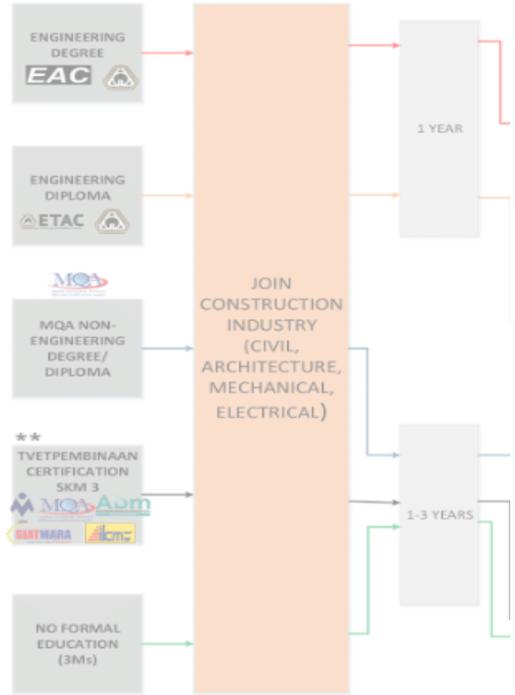
Note:

- 1) Five different streams of qualification backgrounds from government or private institution
- 2) Construction TVET graduates progression for both academic and professional career that obtainable
- 3) Academic progression towards PhD through MQA/APEL route with local University
- 4) Career progression towards PEPC (BEM) or Chartered Engineer from ECUK
- 5) CABE professional membership within built environment qualifications at Level 6 and above under recognized framework.
- 6) Flowchart illustrated by combining multiple frameworks with tested routes of achievement
- 7) **Inclusive but not limited to graduates from ILKBS, IKLPLB, ABM, ILJTM, Politeknik, KK, KV, SKM Level 3/equivalent

"TVET education programs have made a competitive retaliation recently compared to mainstream programs due to internationalization and globalization of continuing education, at affordable and accessible certification through remote learning process"



Adj. Prof. Ir. Dr. MUHAMMAD ARKAM CHE MUNAAIM

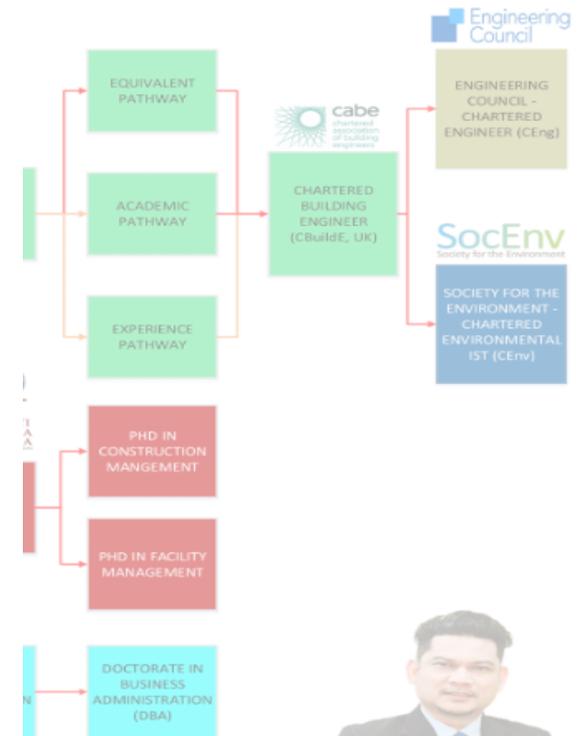


Note:

- 1) Five different streams of qualification based on TVET
- 2) Construction TVET graduates progression towards higher education
- 3) Academic progression towards PhD through higher education
- 4) Career progression towards PEPC (BEI) through higher education
- 5) CABE professional membership within 1 year
- 6) Flowchart illustrated by combining multiple streams
- 7) **Inclusive but not limited to graduates from TVET



Training provider for:



TVET education programs have made a significant contribution recently compared to mainstream education programs due to internationalization and continuing education, at affordable and accessible through remote learning process"



MUHAMMAD ARKAM CHE MUNAAIM



Chartered Association
of Building Engineers

This is to certify that

*Muhammad Arkam Bin Che
Munaaim*

was registered as a

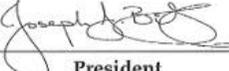
Chartered Member

27th May 2022

*by the board of the Chartered Association of Building Engineers
subject to the provision of the
Royal Charter of the Association*

Registrant Number: 69496957


Chief Executive


President



Chartered Association
of Building Engineers

This is to certify that

*Muhammad Arkam Bin Che
Munaaim*

was registered as a

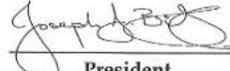
Chartered Building Engineer

27th May 2022

*by the board of the Chartered Association of Building Engineers
subject to the provision of the
Royal Charter of the Association*

Registrant Number: 69496957


Chief Executive


President





**UNIVERSITI
GEOMATIKA
MALAYSIA**

DU059(W)

UNIVERSITI GEOMATIKA MALAYSIA
Chancellery Office, 5-5-7,
5th Floor, Wisma Prima Peninsula
Jalan Setiawangsa 11, Taman Setiawangsa
54200 Kuala Lumpur
Tel : +603-4257 6757 Fax: +603-4260 3559
Email: enroll@geomatika.edu.my
Website: www.geomatika.edu.my

No Rujukan : UGM/HEA/GEC-MJASB/0623-1
Tarikh : 21 Jun 2023

MEGA JATI ACADEMY SDN BHD

No, 14-1, Jalan Marikh CB U5/CB, Section U5,
40150 Shah Alam,
Selangor.
(u/p : Puan Zahafarina)

Tuan/Puan,

SURAT NIAT MENJALINKAN KERJASAMA ANTARA MEGA JATI ACADEMY SDN BHD (MJASB) BERSAMA UNIVERSITI GEOMATIKA MALAYSIA (UGM) BAGI PROGRAM MASTER OF BUSINESS ADMINISTRATION (MBA) DAN DOCTOR OF BUSINESS ADMINISTRATION (DBA) MELALUI LALUAN APEL (APEL A / APEL C) MENGGUNAKAN PENSIJILAN OTHM QUALIFICATIONS TAHAP 7 DAN TAHAP 6 (PEMBINAAN DAN FASILITI)

Dengan segala hormatnya perkara di atas adalah dirujuk.

2. Merujuk kepada perbincangan yang diadakan antara pihak UG dan MJASB pada 16 Mei 2023, sukacita dimaklumkan bahawa pihak UGM **bersetuju** untuk menerima kemasukan pelajar daripada program pensijilan OTHM Qualification Tahap 6 dan Tahap 7 untuk menyambung pengajian ke peringkat Ijazah Sarjana Muda dan Ijazah Sarjana melalui APEL A – Tahap 6 dan tahap 7.

3. [REDACTED]

ii. [REDACTED]

iii. [REDACTED]

4. Walau bagaimanapun, kemasukan pelajar adalah bergantung kepada terma dan syarat iaitu tertakluk kepada keputusan yang dibuat oleh Jawatankuasa Senat Universiti, garis



Ruj Kami: BOG/2306(01)

1 June 2023

Prof. Dr M. Arkam C. Munaaim
Chief Executive Officer
MEGA JATI ACADEMY SDN BHD
No 62, Tingkat 1, Bandar Puteri Jaya
Jalan BPJ 1/1, Seksyen 1, Sungai Petani, 08000
KEDAH, MALAYSIA.

Dear Prof. Dr Arkam,

RE: ARTICULATION ARRANGEMENT

Thank you for the opportunity to review the OTHM Qualifications (UK) which accredited by European Qualification Framework. Referred to JPT/BPP(P)1000-753 Jld.7 (29) and MQA.100-1/7/2 Jld. 3(7). We are pleased to confirm the following arrangement:

Graduates of OTHM Qualifications (UK) Level 7 Diploma which accredited by European Qualification Framework (EQF) with 60 Credits of European Credit Transfer and Accumulation System (ECTS) will attract 50% advance standing into the Master of Business Administration (MBA). Students will be required to complete 20,000 words of final dissertation (21 credit hours).

I hope this proves helpful. We look forward to graduates of Mega Jati Academy Sdn Bhd continuing their higher education with the Twintech International University College of Technology.

Sincerely,
**TWINTECH INTERNATIONAL UNIVERSITY
COLLEGE OF TECHNOLOGY**

Prof. Dato' Dr. Fred Y F Chin
President



CERTIFIED FACILITY MANAGEMENT PROFESSIONAL (LEVEL 7)

This is to certify that

WEY TYNG VUN

has successfully completed an approved programme at

MEGA JATI ACADEMY

Awarded on 22 July 2022

European Qualifications Framework (EQF) Level 7
LRN: 220714017 | 201002 | DC2012488 | ELP: MJA210302
This certificate should be read in conjunction with the accompanying transcript

Issued on 22 July 2022

Patricia Land
Responsible Officer
OTHM Qualifications

ELECTRONIC
DOCUMENT

SCAN TO VERIFY



CERTIFIED CONSTRUCTION PROJECT MANAGEMENT (LEVEL 7)

This is to certify that

MAHENDRAN CHITTIAR SUPRAMANIAM CHITTIAR

has successfully completed an approved programme at

MEGA JATI ACADEMY

Awarded on 05 November 2021

European Qualifications Framework (EQF) Level 7
LRN: 210930038 | 151276 | DC2012488 | ELP: MJA210301
This certificate should be read in conjunction with the accompanying transcript

Issued on 18 February 2022

Patricia Land
Responsible Officer
OTHM Qualifications

ELECTRONIC
DOCUMENT

SCAN TO VERIFY







BENEFITS OF PROGRESSION

SUPPORT LIFELONG LEARNING AND TVET CERTIFICATION FOR ALL



Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.



BENCHMARKED TO THE INTERNATIONAL FRAMEWORKS WITH LOCAL'S COMPETENCY BASED FRAMEWORKS



READY FOR GLOBAL MOBILITY AND INTERCONNECTEDNESS



United Nations
Educational, Scientific and
Cultural Organization



International Centre
for Technical and Vocational
Education and Training

INDUSTRY / CLIENT RECOGNITION



EMPLOYMENT RECOGNITION



CULTIVATE BEST PRACTICES



CULTIVATE SELF REGULATORY PRACTICES



PROFESSIONAL STATUS/TITLE *the abbreviation “MCABE, CBuildE (UK)” after name*



CONTRIBUTE BACK TO THE INDUSTRY



M Arkam C Munaaim is with Mega Jati Sdn Bhd at Mega Jati Consult North.

1 d · Sungai Petani ·

Downloadable version:

<https://drive.google.com/.../1bUDvXrdggCjYO.../view...>

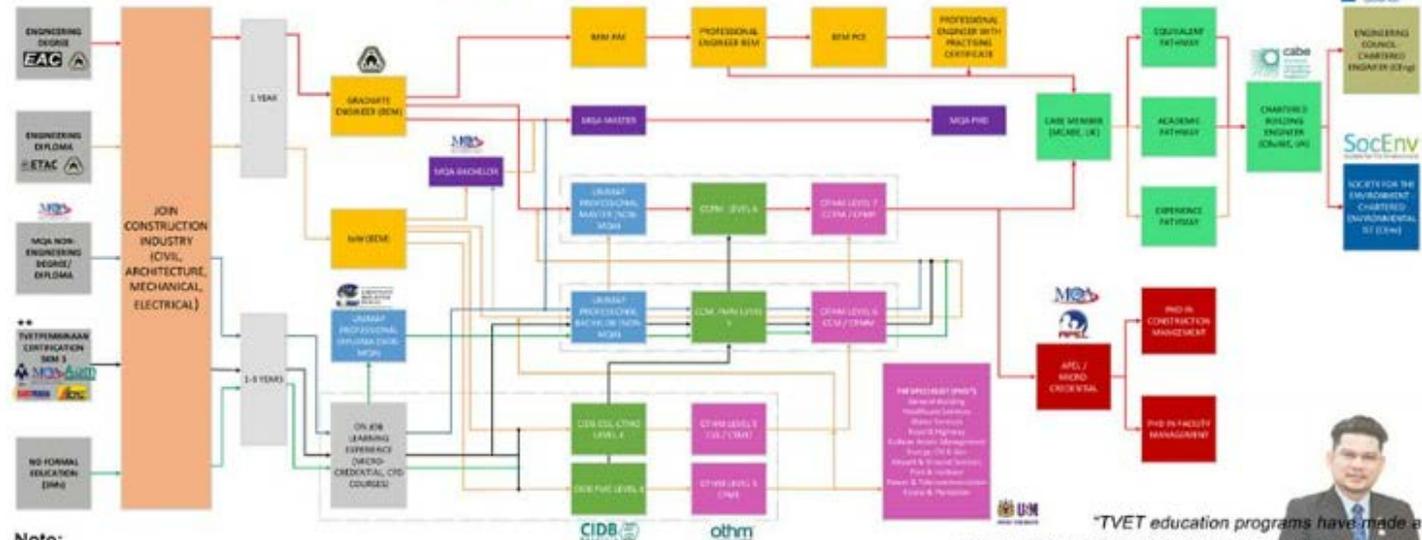
Please share.

#megajatiacademy #TVET #ConstructionTVET #Progression

TVET CONSTRUCTION GRADUATES POTENTIAL ACADEMIC & CAREER PROGRESSION

(Engineering, Engineering Technology, Engineering Diploma, Non-Engineering Graduates, Construction TVET Related Graduates Progression Chart with Multiple Frameworks for both Academic and Professional Career Progression.)

Mega Jati Academy Sdn. Bhd (1240301-V) We are certified training provider for:



- Note:**
- 1) Five different streams of qualification backgrounds from government or private institution
 - 2) Construction TVET graduates progression for both academic and professional career that obtainable
 - 3) Academic progression towards PhD through MQA/APEL route with local University
 - 4) Career progression towards PEPC (BEM) or Chartered Engineer from ECUK
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 - 6) Flowchart illustrated by combining multiple frameworks with tested routes of achievement
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"TVET education programs have made a competitive retaliation recently compared to mainstream programs due to internationalization and globalization of continuing education, at affordable and accessible certification through remote learning process"



Adj. Prof. Ir. Dr. MUHAMMAD ARKAM CHE MUNAAIM

C Munaaim is with Mega Jati Sdn Bhd at Mega Jati Consult North.

Petani ·

POTENTIAL FOR #ConstructionTVET both #Construction and #TVET through our programs.

Interested parties may contact Mega Jati Academy for consultation.

Chartered Building Engineer... See more



Chartered Association of Building Engineers

This is to certify that

Ahmad Ariff Bin Anuar

was registered as

Chartered Building Engineer

on

28th March 2023

Chartered Association of Building Engineers subject to the provision of the Charter of the Association



Chartered Association of Building Engineers

This is to certify that

Ahmad Zawawi Bin Kasmin

was registered as

Chartered Building Engineer

on

29th March 2023

by the board of the Chartered Association of Building Engineers subject to the provision of the Charter of the Association



Chartered Association of Building Engineers

This is to certify that

Vun Wey Tyng

was registered as

Chartered Building Engineer

on

21st March 2023

by the board of the Chartered Association of Building Engineers subject to the provision of the Charter of the Association



Chartered Association of Building Engineers

This is to certify that

Muhammad Arkam Bin Che Munaaim

was registered as

Chartered Building Engineer

on

27th May 2023

by the board of the Chartered Association of Building Engineers subject to the provision of the Charter of the Association

Too Busy for Improvements?

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qualifications

A year from now
you may wish you
had started today.

- Karen Lamb



THANK YOU



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BOARD OF ENGINEERS MALAYSIA

Tingkat 11 & 17, Blok F Ibu Pejabat JKR

Jalan Sultan Salahuddin, 50580 Kuala Lumpur

<http://www.bem.org.my>

enquiry@bem.org.my or complaint@bem.org.my.

Tel: 03-26912090; Fax: 03-26925017



More Information...?

M. ARKAM C.M.

Mega Jati Academy Sdn Bhd

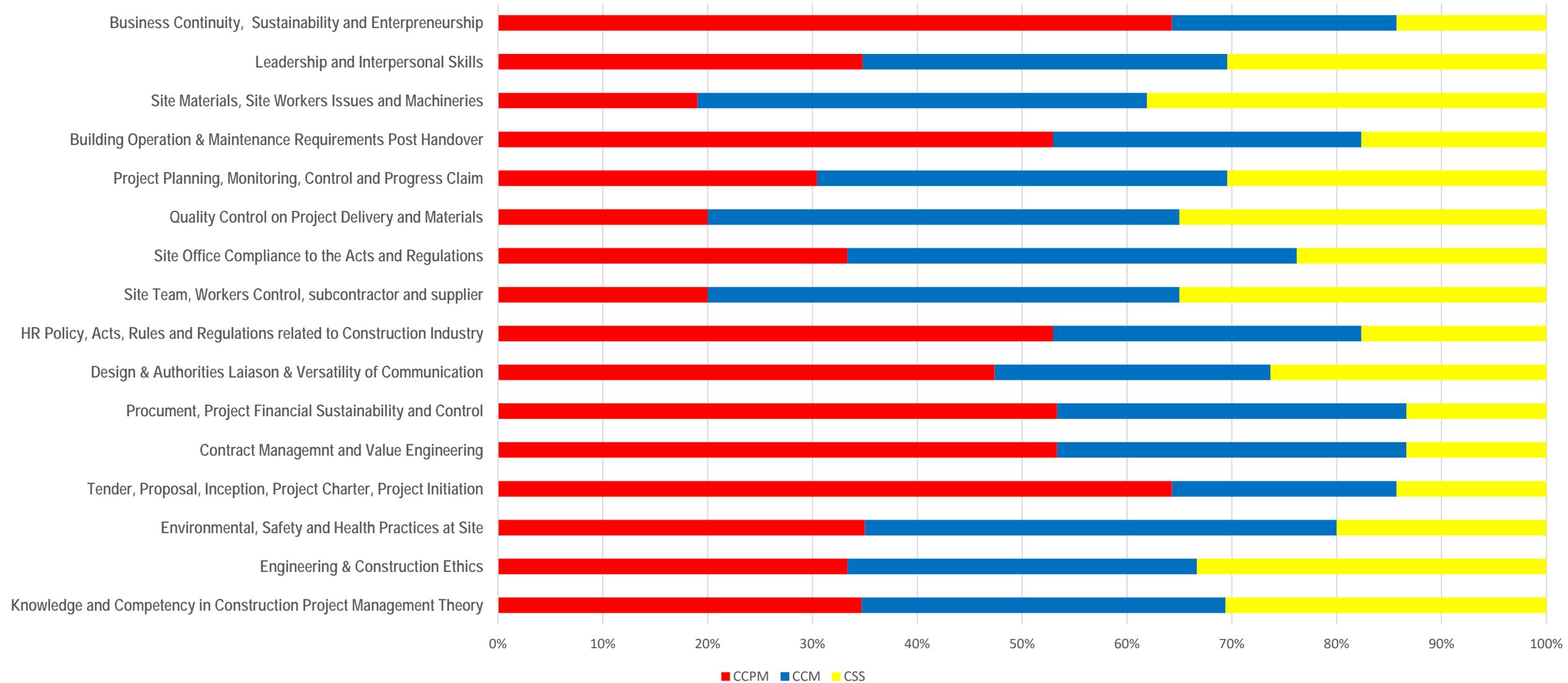
arkam@engineer.com / +6016 335 7727

FORM G#	TAJUK BORANG	PENANDATANGAN 1	PENANDATANGAN 2	PENANDATANGAN 3
	PERAKUAN BORANG BERDASARKAN SKOP KERJA	CONTRACTOR/SUBCONT KONTRAKTOR / SUBKON	CONSULTANT / PERUNDING	SUBMITTING PERSON / ORANG YANG MENGEMUKAKAN
G1	PERAKUAN KERJA-KERJA TANAH	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G2	PERAKUAN PEMANCANGAN TANDA	CIDB CCPM/CCM/CSS	JURUUKUR TANAH BERLESEN BLSM	BEM PEPC / LAM PA
G3	PERAKUAN ASAS TAPAK	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G4	PERAKUAN STRUKTUR	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G5	PERAKUAN PERPAIPAN AIR DALAMAN	TUKANG PAIP BERLESEN / LICENCED PLUMBER CIDB	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC / LAM PA
G6	PERAKUAN PERPAIPAN KEBERSIHAN DALAMAN	TUKANG PAIP BERLESEN / LICENCED PLUMBER CIDB	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC / LAM PA
G7	PERAKUAN ELEKTRIKAL DALAMAN	ORANG KOMPETEN ST (WIREMAN / CHARGEMAN / JEK)	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC / LAM PA
G8	PERAKUAN KEHENDAK-KEHENDAK PEPASANGAN KESELAMATAN KEBAKARAN (SENI BINA)	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC / LAM PA
G9	PERAKUAN SISTEM PENGGERA KEBAKARAN DAN SISTEM PEMADAM API (MEKANIKAL DAN ELEKTRIKAL)	KONTRAKTOR TRED SISTEM PENCEGAH KEBAKARAN	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G10	PERAKUAN PENGUDARAAN MEKANIKAL	KONTRAKTOR TRED SISTEM PENGUDARAAN MEKANIKAL	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G11	PERAKUAN PEMASANGAN LIF/ESKALATOR	KONTRAKTOR TRED DENGAN JKKP	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G12	PERAKUAN BANGUNAN	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW / BAM PA, GA, IOW (A)	BEM PEPC / LAM PA
G13	PERAKUAN SISTEM BEKALAN AIR LUARAN	KONTRAKTOR TRED DENGAN SPAN	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G14	PERAKUAN RETIKULASI PEMBETUNGAN	KONTRAKTOR TRED DENGAN SPAN	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G15	PERAKUAN LOJI RAWATAN KUMBAHAN	KONTRAKTOR TRED DENGAN SPAN	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G16	PERAKUAN SISTEM BEKALAN ELEKTRIK LUARAN	ORANG KOMPETEN ST (WIREMAN / CHARGEMAN / JEK)	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC / LAM PA
G17	PERAKUAN JALAN DAN PARIT	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G18	PERAKUAN LAMPU JALAN	ORANG KOMPETEN ST (WIREMAN / CHARGEMAN / JEK)	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G19	PERAKUAN PARIT LUARAN UTAMA	CIDB CCPM/CCM/CSS	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G20	PERAKUAN KOMUNIKASI	(a) KONTRAKTOR TRED ST DAN (b) KONTRAKTOR ORANG CEKAP SKKM/CA	KAKITANGAN PENGAWASAN TAPAK BEM PEPC, PE, GE, IOW	BEM PEPC
G21	PERAKUAN PANDANGAN DARAT	KONTRAKTOR TRED	LAM / PA	N/A

CONSTRUCTION PROJECT MANAGER (CPM)	CONSTRUCTION MANAGER (CM)	CONSTRUCTION SITE SUPERVISOR (CSS)
M01 - Fundamental of Project Management Competency	M01 - Fundamentals of Construction Management Competency	M01 - Introduction, Preliminaries and Logistic Planning
M02 - Project Initiation	Void	Void
M03 - Conceptual Design & Preliminary Estimate	Void	Void
M12 - Tender Management	M02 - Tendering Management	Void
M05 - Project Planning, Monitoring & Control	M03 - Site Mobilisation Management	M04 - Site Mobilisation and Preparation
M05 - Project Planning, Monitoring & Control	M04 - Construction Planning and Implementation	M01 - Introduction, Preliminaries and Logistic Planning
M06 - Project Financial Management	M05 - Cash Flow Management	M07 - Project Monitoring, Control and Claims
M08 - Quality Management	M06 - Construction Quality Management	M05 - Site Administration, HSE and QMS
M09 - Health & Safety Management	M07 - Safety and Health Management	
M10 - Environment Management	M08 - Environmental Protection Management	
M16 - Project People and Team Management	M09 - Project Personnel / Staff Management	M03 - Roles and responsibility of Project Team
M05 - Project Planning, Monitoring & Control	M10 - Construction Materials Management	M06 - Project Supervision
M05 - Project Planning, Monitoring & Control	M11 - Construction Labour Management	
M05 - Project Planning, Monitoring & Control	M12 - Sub-Contractors Management	
M05 - Project Planning, Monitoring & Control	M13 - Plant and Machineries Management	
M05 - Project Planning, Monitoring & Control	M14 - Site Office Management	
M11 - Value Management	M15 - Contract Management	Void
M04 - Procurement Management		Void
M13 - Contract Management		Void
M07 - Design Development & Authority Liaison	M16 - Stakeholder Management	M02 - Comunication and Liaison
M16 - Project People and Team Management		
M14 - Project Handover and Close Out	M17 - Proejct Handover Management	M08 - Post Construction
M15 - Operation and Maintenance	Void	Void

COMPARISON COMPETENCY CHART BETWEEN CCPM, CCM AND CSS

COMPETENCY CHART CCPM, CCM AND CSS IN A CONSTRUCTION PROJECT





OTHM Qualifications

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OTHM Qualifications is a UK's based Awarding Organization regulated by OfQual (Office of the Qualifications and Examinations Regulation) and has a numerous delivery centre globally to deliver their qualifications with the objectives to uphold the integrity of qualifications and assessments to provide **British Standard Qualifications** globally, to promote professionalism, to promote ethical practice and to promote equality and diversity. **Mega Jati Academy** is one of the Approved Centre of OTHM Qualifications United Kingdom in promoting construction and facility management learning programs with registration number **DC2012488** and delivering international **Endorsed Learning Program (ELP)** by OTHM Qualifications particularly in Construction Industry at Level 5, 6 and 7 approved under the **European Qualification Frameworks (EQF)**.



Q & A





THANK YOU



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BOARD OF ENGINEERS MALAYSIA

Tingkat 11 & 17, Blok F Ibu Pejabat JKR

Jalan Sultan Salahuddin, 50580 Kuala Lumpur

<http://www.bem.org.my>

enquiry@bem.org.my or complaint@bem.org.my.

Tel: 03-26912090; Fax: 03-26925017

