

REGULATING ENGINEERING PROFESSION: AN OVERVIEW OF BEM'S ROLES AND FUNCTIONS



BEM Executive Director

noramil@bem.org.my

Date: 18th May 2021

Venue: ZOOM



Professional Regulatory Authority





MALAYSIAN INSTITUTE OF ACCOUNTANTS

ACCOUNTANTS: MANAGERS OF VALUE

MALAYSIA

WELALUI

WE

Accountants Act 1967

Advocates and Solicitors' Ordinance 1947; Legal Profession Act 1976



Registration of Surveyors Act of 1967



Board of Architects Malaysia Lembaga Arkitek Malaysia

Architects Act 1967



THE PURPOSE OF THE ENGINEERS' ACT



To **protect the public** by legislative control so that the practice of engineering, which has a bearing on <u>public safety</u>, health and welfare, can only be carried out by <u>licensed</u> professional engineers.

To create a regulatory body with mandate to carry out licensing of professional engineers and regulation of the profession

To set regulations pertaining to the practice of engineering; <u>qualifications for licensing</u>; <u>and code of professional conduct for registered engineers</u>;

14 Board Functions

eb) To employ any person, as it deems necessary, to assist the Board in carrying out its functions/powers/duties

ec) To provide facilities for promotion of learning & education and to hold/cause the professional development programmes, incl. CPD program for enhancing latest knowledge to that profession

b) To approve or reject applications for registration under this Act or to approve any such application

a) To keep and maintain the Register

ed) To appoint a committee to conduct PAE for the purpose of admission as PE & PCE for the purpose of issuing a Practicing Certificate to PE

c) To order the issuance/imposition written warning/reprimand, fine, suspension, cancellation, removal/reinstatement of Parts III & IV

ee) To appoint any person to represent the Board in any committee/panel/institution with recommendations to the Board on qualifying matters for admission to the profession

d) To fix from time to time the scale of fees to be charged by registered Engineers & ECP for professional engineering services rendered ef) To appoint a body consisting of members from the Board, PE & other persons to advise the Gov. & public on matters relating to engineering education incl the certification of such programs

e) To hear & determine or appoint committee/arbitrator on disputes relating to professional conduct/ethic of registered Persons

eg) To cause examinations to be conducted by an institution recognized by the Board for the purpose of admission to the profession

ea) To act as a stakeholder in a contract for professional engineering services, when 18/5/2021 requested

g) Generally, to do all as are necessary to carry out the provisions of the Act

f) To determine & regulate the conduct and ethics of the engineering profession 6



LAWS OF MALAYSIA

Board Formation

The Board



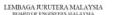
YBhg. Dato' Ir. Haji Mohamad Zulkefly bin Sulaiman (President)







REGISTRATION OF ENGINEERS ACT 1967



P.U. (A) 126.



REGISTRATION OF ENGINEERS **REGULATIONS 1990**

LEMBAGA JURUTERA MALAYSIA



Prof. Ir. Dr. Norlida binti Buniyamin

Adnan bin Mohd Nor



YBhg. Dato' Ir. Ahmad Redza bin Ghulam Rasool





A Krishnasamy



YBhg. First Admiral Dato' Ir. Ahmad Murad bin Omar







YBhg. Dato' Ir. Haji Nor Hisham bin Mohd Ghazali



Ir. Megat Johari bin Megat Mohd Noor



Dato' Prof. Ir. Dr. Mohd

Hamdi bin Abd Shukor

Sr. Rogayah binti Yunus





Ir. Zailee bin Dollah



Ir. Mohd Aman bin Hj Idris



Ir. Mohd Khir bin



MINISTRY OF WORKS

Section 3(2)(a) of REA

PE/PEPC from Government Sector

Section 3(2)(b), 3(2)(c) and 3(2)(d) of REA

PE/PEPC from Private Sector

Representative from Architect & Quantity Surveyor Boards

Ex-Officio



Ir. Dr. Megat Zuhairy bin Megat Tajuddin (Registrar) Section 6(1) of REA

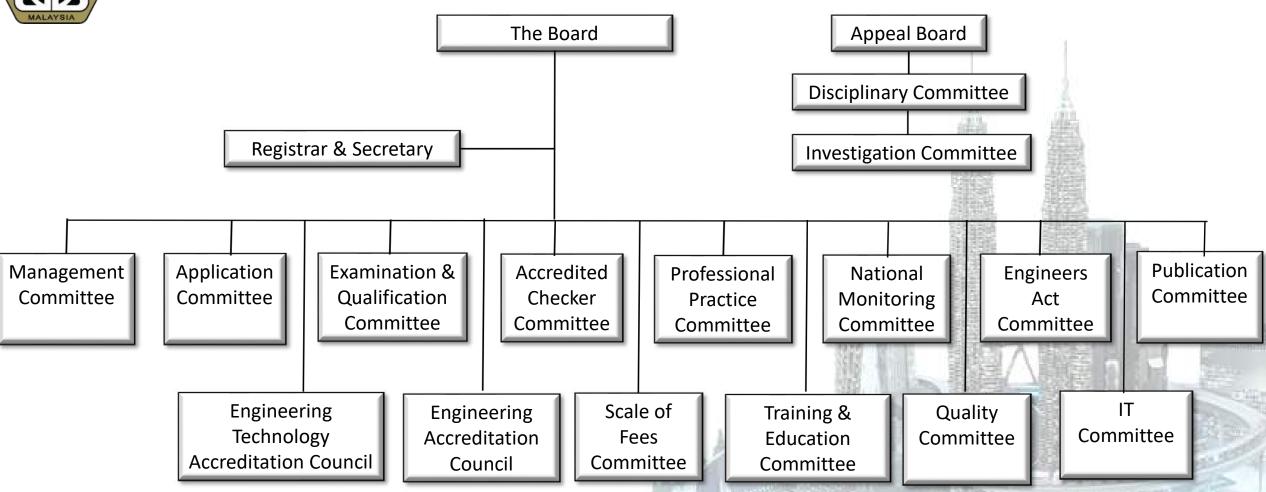


Ir. Suhaizad bin Sulaiman (Secretary)

Regulation 9 of RER



Committee Organization Chart





JABATAN

TEKNOLOGI

MAKLUMAT

Department

KOMUNIKASI &

Communication &

Information Technology

PENGURUS KANAN

Senior Manager

JABATAN

& KUALITI

Department

BEM's Organization Chart PRESIDEN & AHLI LEMBAGA President & Board Members **SETIAUSAHA & PENDAFTAR** Secretary & Registrar PENGARAH EKSEKUTIF Executive Director PELAN STRATEGIK Strategic Planning KAWAL SELIA **OPERASI** Operation Regulatory **JABATAN JABATAN** JABATAN AKREDITASI JABATAN AKREDITASI PENTADBIRAN, **AMALAN IKHTISAS** PENDAFTARAN **TEKNOLOGI** KEJURUTERAAN SUMBER MANUSIA & KELAYAKAN KEJURUTERAAN Registration Engineering Accreditation Professional Practice Engineering Technology Department Department Administration, Human & Qualification Department Accreditation Department Resource & Quality UNIT KEWANGAN PENGARAH Finance Unit Director **PENGURUS** PENGURUS KANAN **PENGURUS PENGURUS KANAN** PENGURUS KANAN Manager Senior Manager Manager Senior Manager Senior Manager



Corporate Focus

Vision

An authoritative body of international standing that regulates engineering practices.

Mission

Regulate engineering services, conforming to professional ethics and international best practices, in ensuring public safety.





Quality Policy

The Board is committed to provide excellent services to registered persons in the engineering profession and stakeholders with continual improvement of its standards.



CERTIFICATE



SIRIM QAS International hereby certifies that

LEMBAGA JURUTERA MALAYSIA (BOARD OF ENGINEERS, MALAYSIA 17TH FLOOR, IBU PEJABAT JKR KOMPLEKS KERJA RAYA MALAYSIA JALAN SULTAN SALAHUDDIN 50580 KUALA LUMPUR WILAYAH PERSEKUTUAN MALAYSIA



has implemented a Quality Management System complying with

ISO 9001:2015



QUALITY MANAGEMENT SYSTEMS - Requirement

Scope of Certification

FULFILLING THE FUNCTIONS AS PRESCRIBED IN SECTION 4 OF THE REGISTRATION OF ENGINEERS ACT, 1967, INCLUSIVE OF:

- 1) MAINTAINING REGISTER OF REGISTERED PERSONS
- PROCESSING APPLICATIONS FOR REGISTRATIONS
- ASSESSING OF ACADEMIC QUALIFICATIONS;
- 4) REGULATING THE PRACTICE AND CONDUCT OF THE ENGINEERING PROFESSION:
- FIXING THE SCALE OF FEES.



Issue date

16 February 2019

Original certification date

16 February 200

Expiry date

15 February 2022

Certificate no.

: QMS 00875

M QAS International Sdn. Bhd. Kamponylie 41034-X I, Persiaron Data Menter Section 2, P. C. Box 7035 40700 Shah Alam Selangar Carul Shaer Mal avya

> Tel: 60-3-5544 64 Fax: 60-3-5544 6

Managing Director *

SIRIM QAS International Sdn. B

http://www.sirim.gas.com.rvy /www.malcyslancertified.com.rvy

This certificate is granted subject to the terms and conditions as stated in the Certification Agreeme

MALAYSIA COM EPP 0122040500 Q (20220) MALAYSIA COM EPP 0122040500 Q (20220) MALAYSIA LINE OF THE BOALD OF ENGINEERS MALAYSIA Engineering Fraternity

Publication Activities







Media

Likes

Tweets & replies





Tweets

Disclaimer: This slide is property of BEM and the information can

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and you may refer to BEM for new update.

Universiti awam, swasta gabung, ubah kursus bagi penuhi kebolehpasaran

Orala Lumpur: Schenyck 30 program kejurnieraan di univer siti tempatan di negara ini di menerkan atas pelbagai faktor, ter sengojian yang hampir sama di erian universiti Ez juga hasil kesedaran univer-

gan kemajuan dalam bidang

Mendedahkan demikisa, Peerkata penggupuran 55 program ejurungram ita membabitkan li-sa universifi awam (GA) dan m-"LEM misalawa tutak boleh berme IIA berkennum isiah Uni.

TheM. Universiti Makeyata Sa-nwak (UNIMAS), Universiti Per-ahanan Nasional Malaysia (UP-(M) dan Universiti Malaysia Per-

NTI International University INTO, Universiti Selangar (UNI-(UNMC). Swinburne University den Manipal International University kepeda 12 chri ini untuk meng





sebengeriya sudah lama menye dari perkara itu tetapi tidak mahu mengongkong universiti sebalik nya membari garis penduan un tyde recognitulian mana-mons leu-

mempunyai perancunyan ters yang Setat," katanya ketika di-temul BH. Megat Johart mencelasisan, an-

I swasta yang terbabit tapinan 12 ciri dalam pengeluaran roaliona) University seorang jurulera anturuya mesti Seorang jurulera anturuya mesti beessaskan ilmu dalam sair morematik serta mampa p

hewangari.
"Caixersiti wajib berpandukan

55 PROG Gaii jurutera statik

Newsprint kekurangan Bayaran tak beruba 150,000 jurutera sejak 20 tahun lalu

Eksklusif

berharga untuk dibayar, menjadi

punca bidang kejuruteraan ne-

gara masih tidak meningkat ke

"Industri tidak melihat kepada

kemahiran dan mereka lebih ber-

minat mendapatkan tenaga luar

seperti dari negara jiran yang

akan menerima apa saja tawa-

"Industri juga berasakan gra-

duan keiuruteraan tidak bersedia

beri latihan dan pengalaman yang

tahap yang sepatutnya.

Graduan baharu kerja di bandar utem hanva terima gaji permulaan RM2,500

Oleh Ilah Hafiz Aziz UPNM Illahhafiz.abdulaziz@bh.com.my

UniMAI Kuala Lumpur: Kadar gaji jurutera tempatan tidak berubah sejak 20 tahun lalu, meskipun negara mencapai tahap kemajuan ran unisei dan pembangunan yang membanggakan.

Difahamkan, ketika ini gradu- untuk membuat kerja, tetapi tian baharu kejuruteraan hanya dak mahu melabur untuk memmenerima bayaran kurang MMI RM2,500 sebulan, bukan gaji lumayan seperti yang dipercayai mmm masvarakat.

bukan bandar besar adalah lebih

Ahli Lembaga Jurutera Mala-

ysia (LJM), Megat Johari Megat

Mohd Noor, berkata universiti

"Keadaan ini menyebabkan taraf gaji jurutera negara hari ini Kadar gaji itu pula hanya didalam keadaan tertekan kerana tawarkan di bandar besar seperti industri tidak berusaha untuk MI di Lembah Klang, di mana permeningkatkan tahan kemahiran mintaan pasaran adalah tinggi jurutera," katanya kepada BH. manakala kadar gaji di kawasan

BH difahamkan, graduan kejuruteraan ditawarkan gaji sekitar RM2,500 dan hanya akan menikmati kenaikan setaraf selenas

Mereka yang ditawarkan jawa Compiled by DI tempatan menghasilkan kira-kira tan pembantu jurutera pula ha-10,000 graduan kejuruteraan se-nya akan menerima gaji sekitar



Industri hari ini dilihat lebih memberi peluana kepada kepakaran dari luar seperti Singapura. Mereka mewujudkan kilang di sini tetapi bila mahu menagunakan kejuruteraan dan teknologi baharu, mereka ke negara

Megat Johari Megat Mohd Noor,

jiran itu.

Malaysia perlu 300,000 kepakaran capai tahap

Brsklusif

Oleh Ilah Hafiz Aziz illahhafiz.abdulaziz@bh.com.mv

Kuala Lumpur: Meskipun graduan kejuruteraan negara berdepan kesukaran mencari pekerjaan, namun Malaysia ketika ini sebenarnya masih berdepan kekurangan sehingga 150,000 jurutera berdaftar.

Ketika ini, jurutera berdaftar termasuk berstatus profesional berjumlah 153,020 orang, namun Malaysia sebenarnya memerlukan sekurang kurangnya 300,000 kepakaran itu untuk mencapai tahap negara maju.

Ini berikutan, keperluan bidang kejuruteraan bagi negara maju dihitung dengan nisbah 1:100 (seorang jurutera/ teknologis kejuruteraan bagi 100 penduduk) dan ketika ini, penduduk Malaysia berjumlah 29 juta orang.

Antara punca kekurangan kepakaran ini yang dikesan Lembaga Jurutera Malaysia (LJM) adalah bilangan teknologis kejuruteraan masih kecil berbanding

Universiti tempatan pada masa ini menghasilkan 10,000 jurutera setahun, tetapi graduan yang dikeluarkan itu tidak mampu memenuhi keperluan industri masa kini disebabkan beberapa perka-

Sebagai contoh, universiti tem patan sebelum ini melaksanakan banyak program kejuruteraan elektronik sehingga mengakibatkan ramai jurutera elektronik ter hasil dalam pasaran kerjaya, manakala program kejuruteraan kimia pula terkesan akibat kejatu han industri minyak dan gas.

Ahli Lembaga LJM, Prof Ir Megat Johani Megat Mohd Noor, berkata industri pada masa ini di-

Setiap program keiuruteraan perlu dilaksanakan dengan dasar dan asas yang kuat supaya graduan dihasilkan itu

mampu survival dan

diterima industri.

Megat Johari Megat Mohd Noor. Ahli Lembaga LIM

lihat 'naik turun' dan penting untuk universiti melaksanakan ramalan lebih tepat.

"Contohnya dalam industri minyak, tiada siapa menduga keiatuhan ini, namun universiti tidak boleh berdiam diri, sebaliknya melaksanakan kajian pasaran dan rujukan penting sebelum program itu ditawarkan

"Setiap program kejuruteraan perlu dilaksanakan dengan dasar dan asas yang kuat supaya graduan dihasilkan itu mampu survival dan diterima industri," ka-



tanya kepada BH, baru-baru ini. Laporan BH Jumaat lalu, men-

dedahkan 55 program kejuruteraan di universiti tempatan di negara ini digugurkan atas pelbagai faktor termasuk tiada permintaan daripada pelajar dan kandungan kursus pengajian hampir sama di setiap universiti.

Ia membabitkan lima universiti awam dan tujuh universiti swasta. Antara universiti berkenaan adalah Universiti Teknologi MARA (UiTM), Universiti Malaya (UM), Universiti Teknikal Malaysia Melaka (UTeM), INTI International University (INTD, Universiti Selangor (UNISEL), MAHSA University dan Universiti Multimedia

Pengerusi Majlis Akreditasi Kejuruteraan Malaysia (EAC) itu turut berkata, Malaysia sebenarnya mampu mengeluarkan lebih ra-

mai teknologis kejuruteraan me mandangkan negara ketika ini se dang mendepani Revolusi Indus tri 4.0 (RI 4.0)

"Hampir 10,000 jurutera diha silkan setahun, tetapi disebahkar bilangan teknologis kejuruteraan lebih kecil mengakibatkan rama graduan kejuruteraan ini menja lankan kerja yang sepatutnya di lakukan teknologis.

"Graduan ini melakukan kerja lebih kepada operasi dan penye lenggaraan meskipun pada dasar nya mereka perlu terbabit dalam kerja perundingan dan pembina an," katanya,

Megat Johari berkata, Akta Pen daftaran Jurutera 1967 (Pindaar 2015) memberi kesamarataan kepada dua kelompok ini melaksa nakan kerja profesional dan me mastikan tiada perbezaan status bagi kedua-dua profesion ini.

Engineers' salaries stagnant for 20 years

IN spite of progress and development over the past 20 years, engineers have not seen a wage increase during that time, reported Berita Harian.

The daily reported that even in the Klang Valley, graduates live on a meagre RM2,500, while this figure is even lower in other places, where the demand for engineers is lower.

Worse still, assistant engineers are paid a wage of around RM1.800 a month, said the daily.

Board of Engineers member Prof Megat Iohari Megat Mohd Noor said that Malaysia does not see much value in paying for skills-based professionals, which is why engineering lags behind its full potential.

"The industry also feels that graduates are not ready to work, but is not willing to invest in giving them the right training and experience,"

Megat Johari said this situation owner," said Rita. causes many engineering graduates

> Actress Rita Rudaini alleges that she received sexually-charged messages via Instagram from an unknown individual, reported Harian her with lewd messages.

Rita, 43, claimed this person has been bothering her for several years.

"I've received messages from false accounts as well as foreign accounts belonging to the (same)

The actress of the film Mami allegedly sent.

Jarum Junior added that mampuan bakat tempatan, sekali she blocked the individu dan graduan kejuruteraan tidak unt, the individual keeps (setaraf. new account to continue Situasi itu menyebabkan pem-

won't hesitate to take leg luar, khususnya dari negara jiagainst them," said Rita, tan called her fans to teach an Lembaga Jurutera Malaysia (LJM) mendapati lebih 5,000 syaal using the Instagram rikat kejuruteraan ketika ini timacdier_07 a lesson by dak mahu terbabit dalam progscreenshots of the mes masuk bidang penyelidikan.

Kuala Lumpur: Lebih 90 peratus syarikat yang menyediakan perkhidmatan kejuruteraan di negara ini tidak mempercayai kegus menyebabkan ramai jurutera menerima pengiktirafan dan gaji

bangunan kejuruteraan negara berada dalam tekanan kerana in-"If they keep botheri dustri ketika ini lebih mengge-mari kepakaren dan teknologi an, berbanding tenaga tempa-

Akibatnya, sektor perindustri- Malaysia mempunyai ramai ba- lebih memberi peluang kepada an negara tidak membangun kat tempatan dan program penpada tahap yang sepatutnya, meskipun pelbagai usaha sudah dilakukan kerajaan untuk mencapai tahap negara maju.

BH dimaklumkan, syarikat kejuruteraan di Malaysia ketika ini tidak berminat untuk melabur dalam meningkatkan kemahiran bakat kejuruteraan tempatan, sebaliknya hanya menggunakan penyelidikan serta kepakaran sedia ada atau dari luar negara.

Keengganan industri untuk memberi upah yang setimpal kepada bakat tempatan menyebabkan gaji jurutera di Malaysia jauh lebih rendah, berbanding di negara lain dan tidak sepadan dengan tahap kemajuan negara.

Ahli Lembaga LJM, Megat Johari Megat Mohd Noor, berkata

didikan kejuruteraan juga amat

setanding dengan negara maju. Bagaimanapun katanya, perkara itu tidak seimbang dengan tahap kejuruteraan negara masa kini sehingga memberi kesan terhadap pembangunan beberapa

Syarikat tidak percaya bakat jurutera tempatan

industri negara. "Kira-kira 6,000 syarikat kejuruteraan ada di negara ini, tetapi hanya 600 sahaja yang melak-

sanakan kerja penyelidikan. "Ribuan syarikat lain pula me lakukan pelbagai jenis projek, tetapi mereka tidak mahu melabur dalam meningkatkan taraf bakat tempatan.

"Situasi ini memberi kesan kepada negara dan boleh dikatakan implikasi itu sudah mula dirasai kerana industri hari ini dilihat kepakaran dari luar seperti Singapura.

"Mereka mewujudkan kilang di sini, tetapi bila mahu menggunakan kejuruteraan dan teknologi baharu, mereka ke negara jiran itu," katanya kepada BH. Megat Johari berkata, perkem-

bangan itu menyebabkan Malaysia sukar mencapai status negara maju.

Katanya, Singapura sebelum ini memacu kemajuan dengan mewujudkan pembangunan dan pembinaan yang hebat, tetapi kini menumpukan kepada bidang penyelidikan seperti pelan me-

mulihara bangunan sedia ada. "Mereka melakukan perkara ini apabila sedar kepentingan penyelidikan kejuruteraan," kata-

jelaskan, bakat kejuruteraan ne gara sememangnya cemerlang tetapi imej yang ada pada hari ini tidak meletakkan mereka di ta han sepatumya "Bakat kejuruteraan kita ber taraf dunia kerana sistem pendidikan kita adalah yang terbaik ditawarkan kepada pelajar malah

ngerusi Majlis Akreditasi Keju

ruteraan Malaysia (EAC) men-

pengiktirafan kita terima. Jika lurutera kita ke luar negara, me reka juga diterima baik. "Tetapi di Malaysia hari in bidang kejuruteraan tidak mengalami perubahan dalam sistem kerja dan ini boleh dilihat de ngan pembayaran gaji kepada jurutera kita yang tidak tinggi,

jika di luar negara, pelbagai



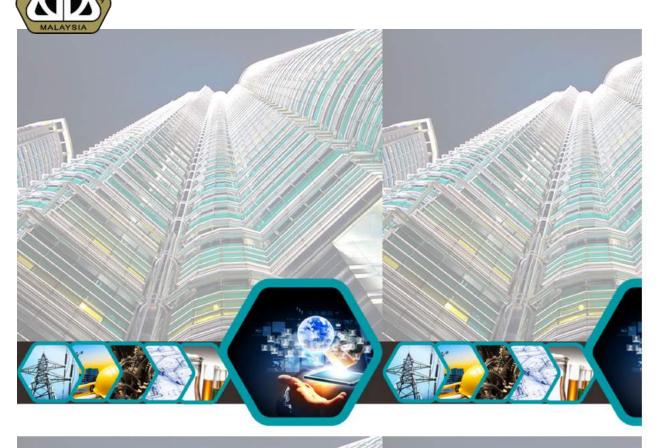
BEM Website & Social Media

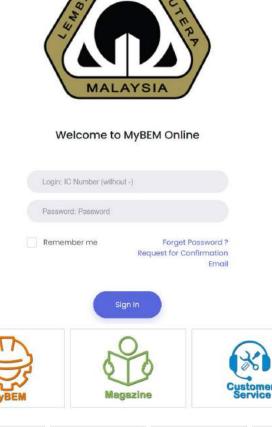


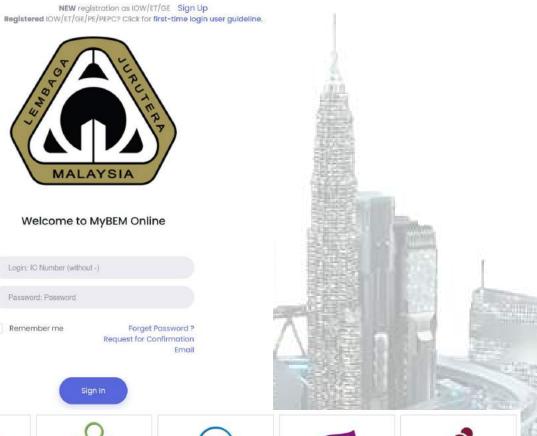


18/5/2021

BEM Online Portal























Activities



















Conceptual



















REGISTRATION OF ENGINEERS ACT 1967

REGISTRATION OF ENGINEERS REGULATIONS 1990



Mandatory Registration for Employment

Section 7(1)(a)

"No person shall, unless he is a **Professional Engineer** – take up employment which requires him to carry out or perform **professional** engineering services"

Section 7(1A)(a)

"A person shall not, unless he is a **Professional Engineer with Practicing Certificate** – practice, carry on business or take up employment which requires him to carry out or perform **professional engineering services** for designated engineering works subject to Section 8"



Mandatory Registration for Employment

Section 7(2) (a)

"a **Graduate Engineer** who is registered with the Board may subject to section 8, take up employment which requires him to perform **professional engineering services**"

Section 7(2) (aa)

"an **Engineering Technologist** who is registered with the Board may subject to section 8, take up employment which requires him to perform **professional engineering services**"

Section 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 Professional Engineers in supervision of engineering works"



Mandatory Registration for Company

Section 7A(1)

"a sole proprietorship, partnership or body corporate may practice as an Engineering consultancy practice and recover in any court any fee, charge, remuneration or other form of consideration for any professional engineering services rendered by it pursuant to its practice as an Engineering consultancy practice carried on by virtue of this section..."





Interpretation

"Professional engineering services"

- means engineering services and advice in connection with any feasibility study, planning, survey, design, construction, commissioning, operation, maintenance and management of engineering works or projects and includes any other engineering services approved by the Board.

"Engineering work"

 means all works which include any publicly or privately owned public utilities, buildings, machines, equipment, processes, works or projects that require the application of engineering principles and data.



Registration Type

Registered Person

- Graduate Engineers
- Professional Engineers
- Inspector of Works
- Engineering Technologist
- Professional Engineers with Practising Certificate
- Accredited Checker



Business Entities

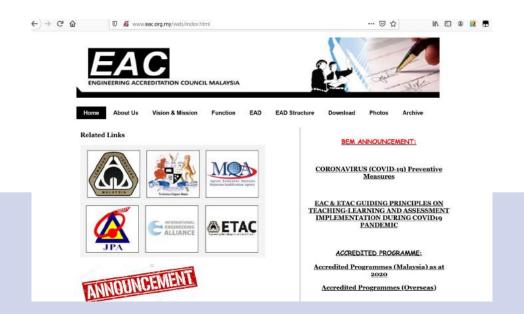
- Sole proprietorship
- Partnership
- Body corporate
- Multi-disciplinary practice

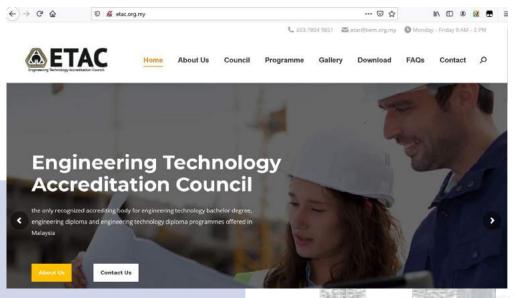
	-AUTOMA-HOLE
Registered Person	2021 (Mac)
Graduate Engineer	143,958
Professional Engineer	4,823
Inspector of Works	6,845
Engineering Technologist	7,130
PE with Practicing Certificate	9,058
Accredited Checker	28
REGISTERED PERSON (TOTAL)	171,842
REGISTERED PERSON (TOTAL) Business Entities	171,842 2021 (Mac)
•	
Business Entities	2021 (Mac)
Business Entities Sole Proprietorship	2021 (Mac) 1,234
Business Entities Sole Proprietorship Partnership	2021 (Mac) 1,234 221
Business Entities Sole Proprietorship Partnership Body Corporate	2021 (Mac) 1,234 221 1,145

Board Functions

ef) To appoint a body consisting of members from the Board, PE & other persons to advise the Gov. & public on matters relating to engineering education including the certification of such programs







Maintain list of accredited engineering degree, engineering technology degree and engineering/engineering technology diploma programs

Accrediting Degree and Diploma Program

Develop best practice in engineering education

Accredited Engineering Degree – 329 programs at 48 **IHLs**

































































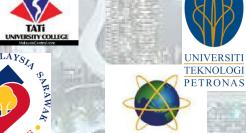


UNIVERSITI

MALAYSIA

MAP PERLIS

















SWINBURNE











PART OF THE UNIVERSITY OF WOLLONGONG AUSTRALIA



Washington Accord Signatories



Accredited Engineering Technology Degree – 44 programs at 5 IHLs











Sydney Accord Signatories



MALAYSIA

Accredited Engineering Diploma – 142 programs at 34





























































POLITEKNIK



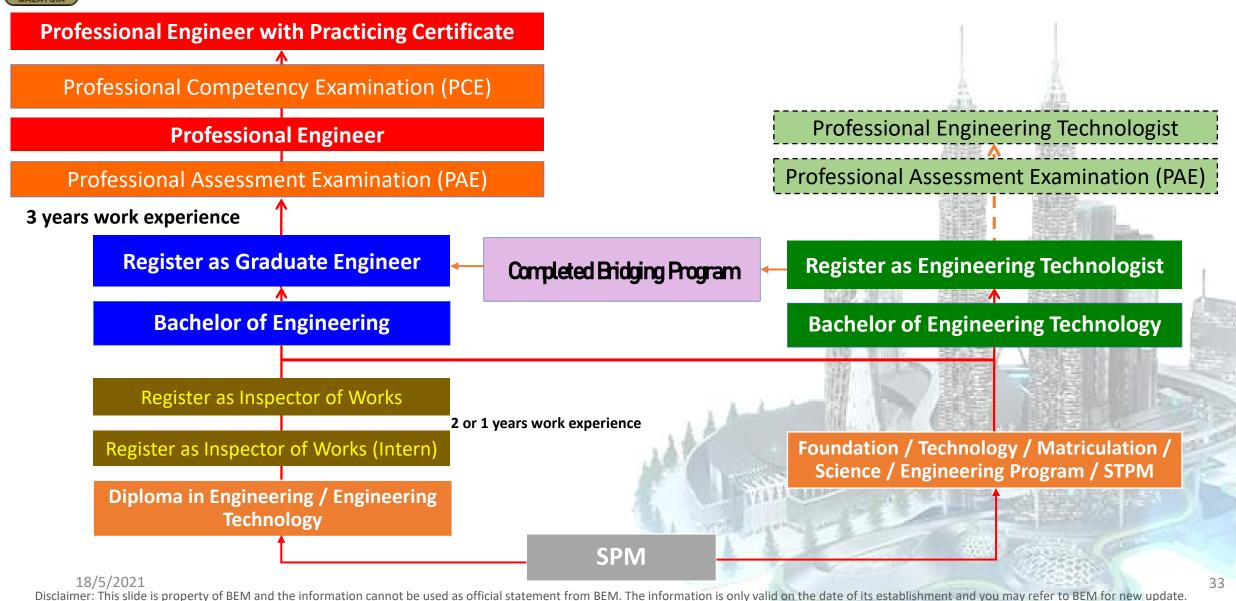


Dublin Accord Signatories





PROFESSIONAL PATHWAY



Board Functions

a) To keep and maintain the Register

ed) To appoint a committee to conduct PAE for the purpose of admission as PE & PCE for the purpose of issuing a Practicing Certificate to PE

b) To approve or reject applications for registration under this Act or to approve any such application

eg) To cause examinations to be conducted by an institution recognized by the Board for the purpose of admission to the profession



Graduate Engineer Registration

Submission

MyBEM Online Reg. System

www.engineer.org.my





Processing fee of RM 50.00













(*Confirmation letter from Jab. Laut Malaysia)















Approval within 1 – 4 months

BEM Application Committee

Output

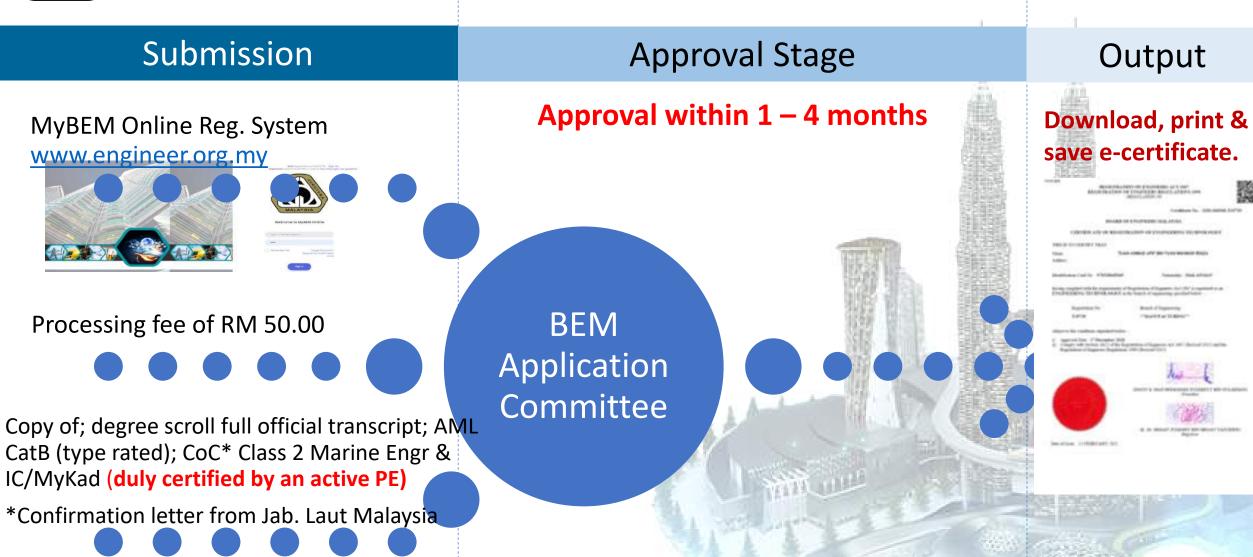
Download, print & save e-certificate.







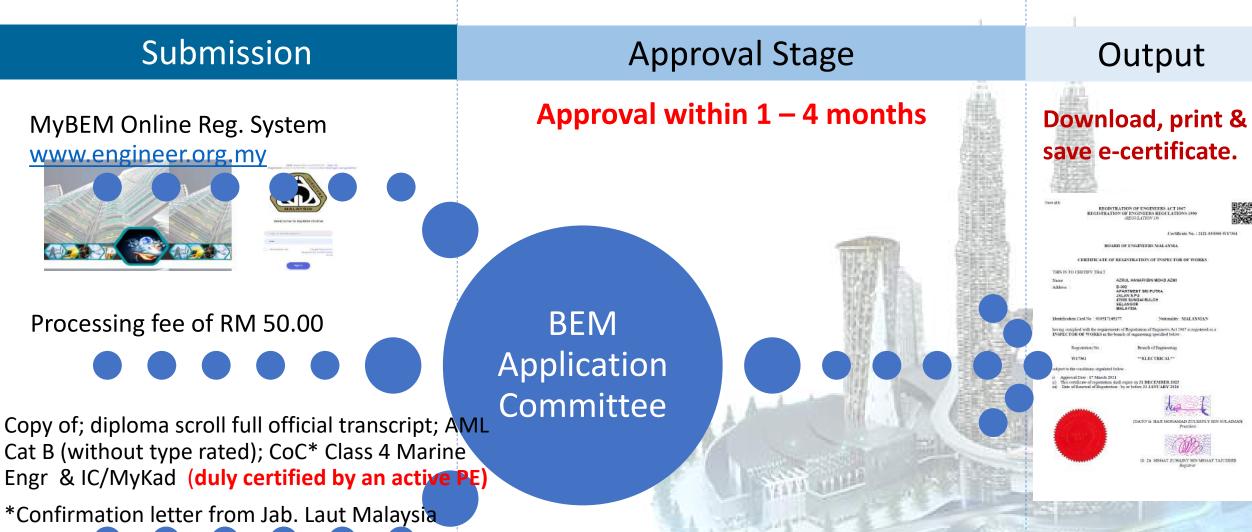
Engineer Technologist Registration



18/5/2021



Inspector of Works Registration



18/5/2021



Professional Engineer Registration

Submission

MyBEM Online Reg. System

www.engineer.org.my





Processing fee of RM 50.00 and Registration fee of RM300.00















-Copy of PAE result/MIEM/Certified PE Cert.

-Summary of Practical Experience not less than 3 years using company letterhead certified by a supervisory Professional Engineer.















Approval Stage

BEM **Application** Committee

Output

Download, print & save e-certificate.







Professional Engineer with Practicing Certificate Registration

Submission

MyBEM Online Reg. System

www.engineer.org.my





Processing fee of RM 50.00 and Registration fee of RM200.00













Approval within 1 - 3 months

BEM **Application** Committee

Output

Download, print & save e-certificate.







Copy of PCE result

















Accredited Checker Registration

Submission

MyBEM Online Reg. System

www.engineer.org.my





Processing fee of RM 50.00 and Registration fee of RM200.00











Approval within 1 - 3 months

BEM **Application** Committee Output

Download, print & save e-certificate.



CV on the qualifications & practical experience

















Engineering Consultancy Practice Registration

Submission

MyBEM Online Reg. System

www.engineer.org.my





Processing fee of RM 50.00 with Registration fee RM250(Sole Proprietorship), RM500 (Partnership) and RM1,000 (Body Corporate)

Sect 14, Cert. of Corporation of Private Company (SSM), Sect 105, 51, 58, 78, Director Resolution, Statutory Declaration, etc.













Approval within 1 – 3 months

BEM Application Committee

Output

Download, print & save e-certificate.

(Borang F)

AKTA PENDAFTARAN PERUTERA 1967 PERATURAN PERATURAN PENDAFTARAN PERUTERA 1990

No Perdone May 1999 per

LEMBAGA JURUTERA MALAYSIA

PERAKUAN PENDAFTARAN SEBAGAI AMALAN JURUTERA PERUNDE

IN ADALAH UNTUK MEMPERAKUI BAHAWA Nama: Penilik Tungga

JURUTERA PERUNDING WI

TAMAN LAGENDA INDAH 08000 SG PETANI KEDAN

15 A SAN COLOR - 15 A S

ış teleh memirihli kehendik-kehendik Aktı Pradathusu Junitera 1967'dan teleh membiyar te abalaran dalabarkan sebagai santa ASIALAN TÜRÜTERA PERUNDENG dalam carrangan

Syanat-syanat:

Perakuan pendaduran ini akan habis tempoh pada 31 Disember 2021





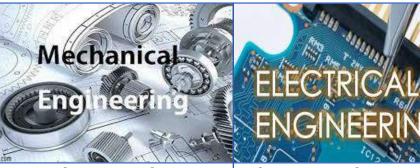
(Jr. Dr. MEGAT ZUHAIRY BIN MEGAT TAJUDDIN)

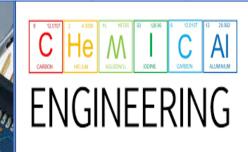




Engineering Branch/Discipline







Civil

- Building
- Construction
- Environment
- Geotechnical
- Mining
- Structural
- Transportation

Mechanical

- Aerospace
- Agricultural
- Automotive
- Building Services
- Manufacturing
- Marine
- Material
- Mechatronic
- Metallurgy
- Mining
- Naval Architectural
- Nuclear

Electrical

- Computer
- Electronics
- Communication

Chemical

- Environmental
- Nuclear
- Petroleum
- Process (Polymer, Pharmaceutical, Food)



Recognition from Other Acts

Factory and Machinery Act 1967 (Act 139)

Section 3 "engineer" means a person who holds an engineer's certificate of competency issued under section 30".



Street, Drainage and Building Act 1974 (Act 133)

Section 3 "qualified person means a Professional Architect, Professional Engineer or building draughtsman registered under any written law relating to the registration thereof;"

Section 85 A (1) "engineer" means a Professional Engineer registered under Registration of Engineers Act 1967"

Uniform Building By-Laws 1984

Section 2 "engineer means a person who is registered as a professional engineer under any law relating to the registration of engineers and who under the law is allowed to practice or carry on the business of a professional engineer.

Electricity Regulations 1994 (Amendment 2013)

Section 47 "Eligibility to become Competent Electrical Engineer"

Board Functions

c) To order the issuance/imposition written warning/reprimand, fine, suspension, cancellation, removal/reinstatement of Parts III & IV

f) To determine & regulate the conduct and ethics of the engineering profession

d) To fix from time to time the scale of fees to be charged by registered Engineers & ECP for professional engineering services rendered

ea) To act as a stakeholder in a contract for professional engineering services, when requested

e) To hear & determine or appoint committee/arbitrator on disputes relating to professional conduct/ethic of registered Persons

ec) To provide facilities for promotion of learning & education and to hold/cause the professional development programmes, incl. CPD program for enhancing latest knowledge to that profession



Investigating Committee

Conduct investigation from the complaint against the registered person or ECP

Decide either "have case" or "no case" on the complaint

Prepare charge/s against the registered person or ECP for "have case" complaint.





Disciplinary Committee

Conduct hearing of misconduct or complaint investigated by Investigating Committee

Made order under Section 15(1A) against the registered Person

Review "No Case" finding from Investigating Committee against the ECPs





Appeal Board

Hear appeal case from order made by Disciplinary Committee or the Board

May confirm or vary the decision made by the Board or Disciplinary Committee

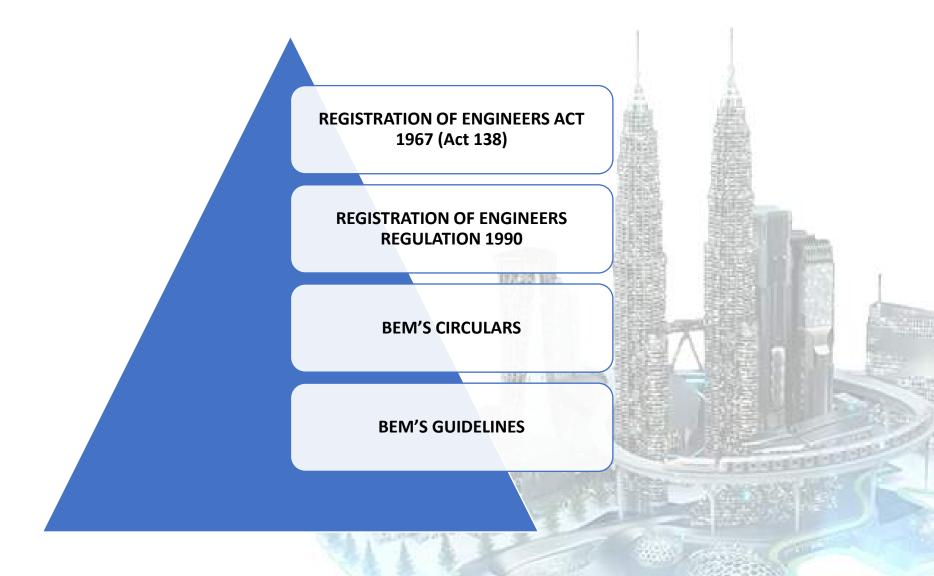
Decision from Appeal Board is final







Reference Hierarchy



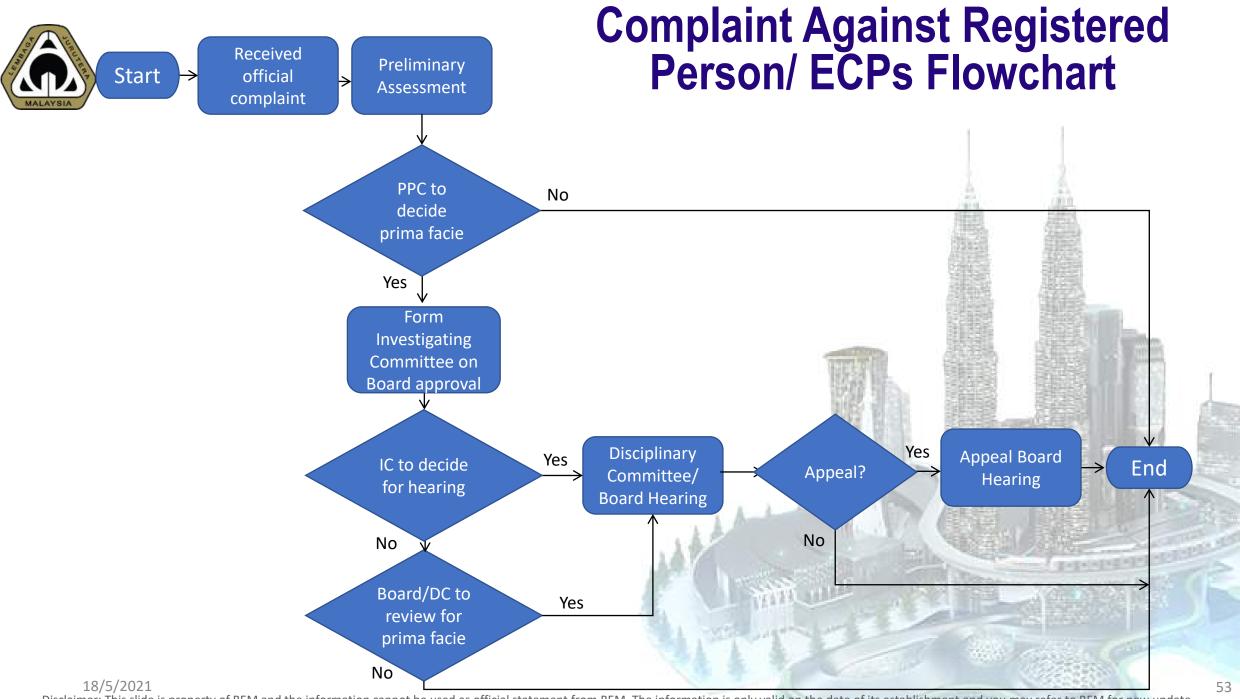
BEM Circulars

CIRCULAR NO.	TITL	.E	Rev. No.: 1 Date: 27.10.2016
Circular No. 001	Code of Conduct of Registered Person		
Circular No. 002	Continuing Professional Development (CPD)		BOARD OF ENGINEERS MALAYSIA
Circular No. 003	Submission of Sewerage and Sanitary Plumbing	Works	CIRCULAR NO. 001 CODE OF CONDUCT OF REGISTERED PERSON
Circular No. 004	Supervision of Construction Works		In exercise of the powers conferred by paragraph 4(1)(f) of the Registration of Engineers Act 1967 (Act 138), the Board of Engineers Malaysia hereby determines the Code of
Circular No. 005	Advertising by Registered Engineers		Conduct of registered Person as stated herein below. This Circular supersedes Circular No. 3/2005, Guidelines for Code of Professional Conduct (BEM/RD/PPC/08).
Circular No. 006	Engineer's Responsibility for Subsurface Investig	gation	This Code of Conduct is in addition to Part IV, Code of Conduct of the Registration of Engineers Regulations 1990.
Circular No. 007	PEPC Endorsement on Certificate of Completion	and Compliand	e (CCC) and Form Gs
Circular No. 008	Procedure for a Registered Engineer or an ECP to Engineer or an ECP	aking over the \	Work of Another Registered
Circular No. 1/2003	Guidelines for Checking/Reviewing The Work of Another Engineer		Checking/Reviewing The er Engineer -Table
Circular No. 5/2005	General Advice On Giving Of Second Opinion		
Circular No. 1/2009	Payment of Stamp Duty		51



BEM Guideline

GUIDELINES NO.	TITLE
Guidelines No. 001	The Role and Responsibility of Professional Engineers for Temporary Works During Construction Stage
Guidelines No. 002	Industrialised Building System (IBS) Works and It's Impact on Scale of Fees
Guidelines No. 003	The Role and Responsibility of Professional Engineers in Earthworks and Buildings Designed by Different Submitting Person
Guidelines No. 004	General Guidelines for Professional Civil Engineers Undertaking Engineering Survey Works
BEM Letter 01	Submission of Plans by Architects, Professional Engineers and Registered Building Draughtsmen
BEM/RD/PPC/11	A Guide to Good Engineering Practice for M&E Engineers





Issuance of Certificate of Completion and Compliance (CCC)

BEM Circular 009 on Submission of Building Plans by Professional Engineers with Practicing Certificate (PEPC) and Architects.

Appendix B Airport runway & apron Air-conditioning & mechanical ventilation system. Bulk handling complex Bridge Cable car system Car parking mechanical system. Causeway Cement plant Crane gantry Crushing plant Coffers dam Colliery D Dam Distillation & desalination plant Drainage scheme Dredging & reciamation work Earthwork Electrical distribution system & stage lighting Electrical services installation Electrical switchroom Embankment Environmental pollution control plant Flood bund Foundation Fire protection service Gravity retaining wall & gabion Grinding plant

Harbour

Infrastructural service

Liquid waste disposal plant

Mass rapid transit system

Marine structure & facility

Mechanical service

Oil refinery plant

Oil & gas tank

Parade ground

Plumbing service

Pumping ground

Pumping station

Proprietary standard

Public address system

Refrigeration installation & cold

Retaining wall (major)

Roadwork, (public) Reservoir

Roadside furniture & traffic

Mine

Mining

Plling

Pipe line

beam/truss

Quarry

Reclamation

Refinery

Quay

Incinerator

Sanitary installation system (for multi storey building) Sewerage work Slipway Solid waste disposal plant Structural system Stabilising earth structure Storage tank Storm sewer & drain Subsoil drainage system Subway Surface railway Taxiway Transmission tower Tunnel T.V. transmission tower Underground rallway Ventilation system. Water distilation plant Water distribution line (hot/cold water service) Waterwork Water & waste water & environmental pollution control plant. Whart

Helicopter port

Appendix C ice factory Aerated water factory Integrated industrial Aircraft assembly plant development" Aircraft maintenance Integrated petrol station workshop & hangar development " Aircraft manufacturing plant Jute mill (building) Boat house (shed) Boller house Brewery. Manufacturing, assembling, Brickwork (factory) processing, repair plant & associated building & facility Bus depot & workshop Marine Carparking - multi-storey Minor earthwork (standalone) Motor vehicles service station Car parking layout (open) Chemical plant Chimney (domestic) Nuclear power station Compressor house Paper mili/factory Electrical substation Perimeter drain work of building Engineering laboratory within private boundary Pharmaceutical plant Plywood factory Fencing & gate Prefabricated structure Flatted factory Power station Footing (thermal hydro & nuclear) Printing work Private roadwork Glue factory Pumping station (building) Glass work (factory) Godown Grandstand (uncovered) Rubber factory

Sanitary & plumbing installation to domestic house, shophouse & Satelité tracking station Septic tank construction & soak away pit Shipyard Single storey factory (with or without mezzanine floor) Swimming pool & ancillary work Steel mill Space research centre Standard patented structure Store building Tannery Timber work (sawmiii) Textile plant Timber structure Underground railway station Utilities building Vegetables of mill & refinery factory Wall (dwarf, facing & decorative & other non-structural type) Warehouse Workshop

UNDANG-UNDANG KECIL BANGUNAN SERAGAM (TERENGGANU) 1984

BORANG F

PERAKUAN SIAP DAN PEMATUHAN
[Undang-Undang Kecil 25]

No. Siri: LJM/T/ 0358

Kepada:

Saya dengan ini mengeluarkan Perakuan Siap dan Pematuhan untuk bangunan/bangunan-bangunan atas
Lot/Lot-Lot
Seksyen

Jalan
setelah berpuashati bahawa bangunan/bangunan-bangunan itu telah siap menurut pelan yang diluluskan No.
bertarikh

Saya telah mengawasi pembinaan dan penyiapan bangunan/bangunan-bangunan itu dan sepanjang
pengetahuan dan kepercayaan saya kerjukenja itu adalah mengikut Akta, Undang-undang Kecil
Bangunan Seragam (Terengganu) 1984 dan pelan-pelan yang diluluskan. Saya dengan ini memperakut bahawa bangunan/bangunan-bangunan itu adalah selamat dan layak untuk diduduki.

(Orang utama yang mengemukakan)

Butir-butir orang utama yang mengemukakan

Nama

Alamat:

No. Pendaftaran LJM:

Salinan kepada

(a) Pihak Berkuasa Tempatan :

(Nama Pihak Berkuasa Tempatan)

(b) Lembaga Jurutera Malaysia (LJM)

Penaju, Jiko ta adalah untuk pembanganan selam rumah beraringan yang dibina secara tunggal atau, pemmyu jiku ta adalah untuk rumah beraringan yang dibina secara tunggal.

SALINAN ASAL

54

Rubber processing mill and

smoke house

Refuse chute system



Type (1) Offence: Offender not registered with BEM



Penalties - Type (1) Offences

Section 24. Any person, sole proprietorship or body corporate who -

- (a) Procures or attempts to procure registration or a certificate of registration under this Act by knowingly making or producing or causing to be made or produced any false or fraudulent declaration, certificate, application or representation whether in writing or otherwise;
- (b) Wilfully makes or cause to be made any falsification in the register;
- (c) Forges, alters or counterfeits any certificate of registration under this Act;
- (d) Uses any forged, altered or counterfeited certificate of registration under this Act knowing the same to have been forged, altered or counterfeited;
- (e) Impersonates a registered Person;
- (f) Buys or fraudulently obtains a certificate of registration under this Act issued to another registered Person or Engineering consultancy practice;
- (g) Sells any certificate of registration issued under this Act; or
- (h) Contravenes section 7 or 8, or subsection 7A(1), 24a(1) or 24B(5),

Shall be guiltly of an offence and shall, on conviction, be liable to a fine not exceeding fifty thousand ringgit or to imprisonment for a term not exceeding three years, or to both.



Penalties - Type (1) Offences

Section 25(1)

(1) Any person, sole proprietorship, partnership or body corporate who contravenes this Act or any regulations made thereunder shall be guilty of an offence and shall, where no penalty is expressly provided therefor, be liable, on conviction, to a fine not exceeding ten thousand ringgit or to imprisonment for a term not exceeding one year, or to both.



Type (2) Offence: Offender is a Registered Person **Hearing by DC** Offender is an ECP Hearing by Board



Penalties - Type (2) Offences

Subsection 15(1A)

- (1A) The orders referred to in subsection 15(1) are
 - (a) the issuance of a written warning or reprimand;
 - (b) the imposition of a fine not exceeding fifty thousand ringgit;
 - (c) the suspension of registration for a period not exceeding two years;
 - (d) the cancellation of registration.

S.15(1) The DC may make any combination of the orders specified in subsection 15(1A)



BEM's Scale of Fees

 Scale of Fees based on total cost of works times the percentage from the SoF set out by BEM; or

Total Cost Of Components Of The Works In The Respective Type in RM	P(max)	P(min)		
100,000 & below	10.00%	8.25%		
250,000	8.65%	7.45%		
500,000	7.60%	6.85%		
1,000,000	6.80%	6.30%		
2,500,000	6.00%	5.65%		
5,000,000	5.50%	5.20%		
10,000,000	5.00%	4.75%		

- Time basis (e.g. salary cost times a multiplier)
- For housing development works, building > 4 storey high, the SOF for Housing Development published on 24th July 1997 shall apply.

P.U. (B) 548.

REGISTRATION OF ENGINEERS ACT 1967

NOTIFICATION OF SCALE OF FEES

IN exercise of the powers conferred by paragraph 4(1)(d) of the Registration of Engineers Act 1967 [Act 138], the Board of Engineers, with the approval of the Minister, fixes the following scale of fees to be charged by registered Professional Engineers for professional advice or services rendered:

- Subject to paragraph 2, every consulting engineer who is engaged by a client to perform any of
 the professional services described in Part A shall be paid in accordance with the scale of fees
 described in Part B in addition to the other payments described in Part C.
- (1) Notwithstanding paragraph 1 and if the consulting engineer is being paid in accordance
 with sub-subparagraph 1(1)(a) of the scale of fees described in Part B, the scale of fees
 provided in Table A of sub-subparagraph 1(1)(e) of Part B shall not apply to buildings in
 housing development works.
 - (2) For housing development works, if the buildings are not more than four storeys high, the "Scale of Fees for Housing Development" published on 24th July 1997 under Gazette Notification No. P.U. (B) 288/1997 shall apply.



Summary of Annual CPD Requirement

• For renewal annual Certificate of Registration:

PEPC

•50 CPD Hours per year

PE

•25 CPD hours per year

•30 CPD hours triennial years



Statistic & Requirement

DISCIPLINARY COMMITTEE

- **14A.** (1) The Board shall appoint a Disciplinary Committee which shall consist of the following members:
 - (a) a Chairman who shall be a registered Professional Engineer with Practising Certificate;
 - (b) a registered Professional Engineer; and
 - (c) a registered Professional Engineer with Practising Certificate.
- 20. For the purpose of this Part there shall be established an Appeal Board consisting of a Judge of the High Court as Chairman who shall be appointed by the Yang di-Pertuan Agong (after consultation with the Chief Justice) and two other persons appointed by the Yang di-Pertuan Agong.

Appeal Board.

LIST OF HEARING CASES AND PENALTIES IMPOSED UNDER THE REGISTRATION OF ENGINEERS ACT 1967 (2004 - 2017)

No	Respondent	Contravened REA 1967/ RER 1990	Date of Order	Penalty		
1.	Wong Yuen Kean (PE No. 1434)	Rule 26 of Rules 1972 (corresponding to Rule 24 of RER 1990)	20.8.2004	Cancellation of PE Registration Appeal Board (29.7.2005) upheld Board's Decision		
2.	Sik Chok Yuen (GE No. 890A)	Section 7(1)(aa)(iii) & Section 8(1)	9.6.2006	i. Cancellation of GE Registration ii. Fine of RM5,000.00		
3.	Ir. Tee Swee Hock (PE No. 5690)	Regulation 31	14.8.2007	6 months suspension (14.8.2007 until 13.2.2008)		
4.	Ir. Mohd Hasan bin Sulaiman (PE No. 7901)	Regulation 23	26.5.2008	i. Fine of RM4,000.00 ii. Written Reprimand		
5.	Mat Anuar bin Hasan (GE No. 6184A)	Section 7(1)(aa)(iii)	8.7.2008	Written Reprimand		
6.	Ridzuan bin Abd Malik (PE No. 8375)	Section 15(1)(fb)	21.8.2009	Cancellation of PE registration Appeal Board (9.12.2009) upheld DC's Decision		
7.	Ir. Ng Kok Chong (PE No. 6818)	Regulation 24	26.5.2009	2 weeks suspension (26.5.2009 until 8.6.2009)		
8.	Ir. Herman Lee (PE No. 4248)	Section 15(1)(m)	17.12.2009	Fine of RM2,000.00		
9.	Ir. Wong Fook Kan (PE No. 7666)	Regulation 25(1)	17.5.2010	1 month suspension (17.5.2010 until 16.6.2010)		
10.	Ir. Lee Peng Thiam (PE No. 10454)	Regulation 32(1)	10.8.2010	i. Fine of RM2,000.00 ii. Written Warning		
11.	Pang Fook Sheng (PE No. 4496)	Rule 26 of Rules 1972	13.8.2010	Cancellation of PE registration Appeal Board (30.1.2012) upheld Board's Decision		



International Affiliations



National Monitoring Committee (NMC)





International Engineering
Alliance (IEA)



ASEAN Chartered Professional Engineer Coordinating Committee (ACPECC)



International Engineering Alliance



ASIA-PACIFIC
ECONOMIC
COOPERATION
[APEC] AGREEMENT
(15 COUNTRIES) –
IEM 2000

INTERNATIONAL ENGINEERING TECHNOLOGISTS AGREEMENT [IETA] (7 COUNTRIES)

INTERNATIONAL
PROFESSIONAL
ENGINEERS
AGREEMENT [IPEA]
(16 COUNTRIES) –
IEM 1999

COMPETENCE AGREEMENTS AGREEMENT OF INTERNATIONAL ENGINEERING TECHNICIANS [AIET] (6 COUNTRIES) WASHINGTON
ACCORD FOR
ENGINEERING
ACADEMIC PROGRAM
(21 SIGNATORIES) –
BEM 2009

SYDNEY ACCORD FOR ENGINEERING TECHNOLOGY ACADEMIC PROGRAM (11 SIGNATORIES) – BEM 2018

DUBLIN ACCORD FOR ENGINEERING TECHNICIANS ACADEMIC PROGRAM (9 SIGNATORIES) – BEM 2018

EDUCATIONAL ACCORDS

18/5/2021 64



ASEAN PROFESSIONAL MOBILITY

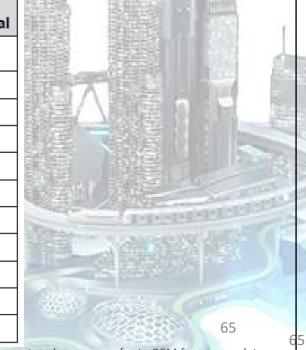


ASEAN
Chartered
Professional
Engineer
(ACPE)

Brunei	Cambodia	Indonesia	Laos	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
32	84	1175	17	921	611	609	303	228	302	
4340										

Registered
Foreign
Professional
Engineer
(RFPE)

		Professional Regulatory Authority (PRA)										
		BN	CA	ID	LA	MY	MM	PH	SG	TH	VN	Total
	BN	-										0
	КН		-									0
	ID			1								0
	LA				1							0
ш	MY		6			-	4	0	0			10
RFPE	MM					0	ı		1	0		1
_	PH			1		2		ı				3
	SG		1			4	2		-			7
	TH		6			1	4			ı		11
	VN										-	0
	Total	0	13	1	0	7	10	0	1	0	0	32



18/5/2021

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Understanding The Different Roles

Board of Engineers Malaysia (BEM)



The Board of Engineers Malaysia (BEM) is a statutory body constituted under the Registration of Engineers Act 1967. Its primary role is to regulate the practice of engineering under the Act and its provisions to protect public interest. Registration with BEM is mandatory if to practice engineering.

Institution of Engineers Malaysia (IEM)

A professional & learned body registered under the Registrar of Society to promote science & profession of engineering in any of its disciplines, to facilitate the exchange of information & ideas related to engineering as well as networking, learning and socializing. Registration with IEM is voluntary.

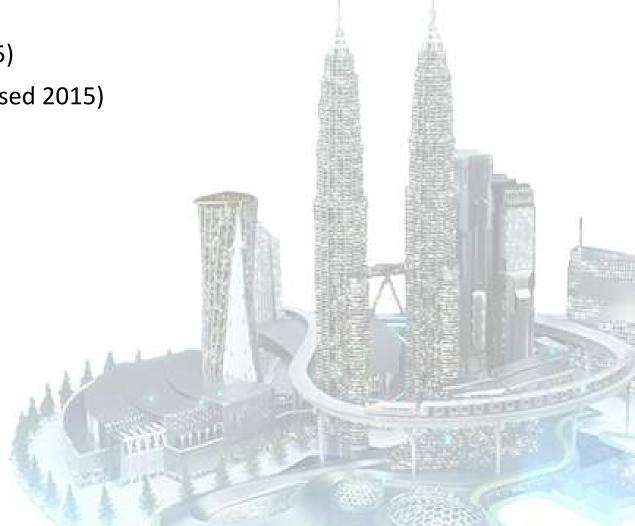
Malaysian Board of Technologist (MBOT)

The Malaysian Board of Technologist (MBOT) is a statutory body constituted under the Technologist and Technicians Act 2015. Its primary role is to recognize Technologist and Technician as professionals.

Registration with MBOT is voluntary.



- Registration of Engineers Act 1967 (Revised 2015)
- Registration of Engineers Regulations 1990 (Revised 2015)
- BEM Notification of Scale of Fees 1998
- BEM Annual Reports





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; 03-26107095/96 Fax: 03-26925017

18/5/2021