

ROLES AND FUNCTIONS OF BOARD OF ENGINEERS MALAYSIA

Presented by: Ir. MOHD NORAMIL BIN MOHD DARIL BEM Executive Director noramil@bem.org.my

Date: 6th October 2020



Introduction

Board Formation

Role and Function





The Act was enacted in Malaysia due to a building failure in Kuala Lumpur in the 1960s.

Before 1967 there was no Engineers Act

similar to the Laws in the UK (which until

today there is no Engineers Act)

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Star GLENN GUA



THE PURPOSE OF THE ENGINEERS' ACT



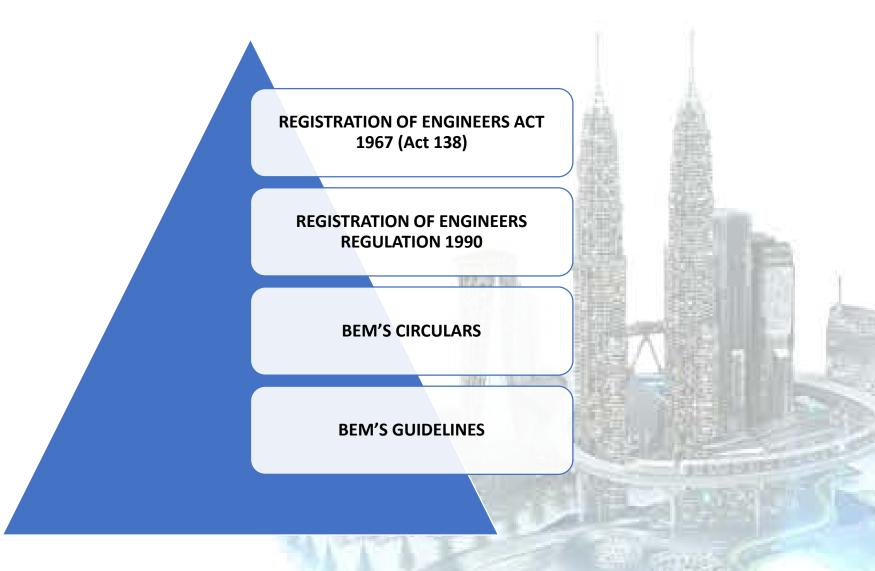
To **protect the public** by legislative control so that the practice of engineering, which has a bearing on <u>public safety</u>, health and welfare, can only be carried out by <u>licensed</u> professional engineers.

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</u> <u>registered engineers;</u>



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		CODE OF CONDUCT OF REGISTERED PERSON	
Circular No. 004	Supervision of Construction Works		In exercise of the powers conferred by paragraph 4(1) <i>(f)</i> of the Registration of Engineers Act 1967 [<i>Act 138</i>], the Board of Engineers Malaysia hereby determines the Code of Conduct of registered Person as stated herein below.	
Circular No. 005	Advertising by Registered Engineers		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 Compliance (CCC) and Form Gs			
Circular No. 008	Procedure for a Registered Engineer or an ECP ta Engineer or an ECP	aking over the V	Vork of Another Registered	
Circular No. 1/2003	Guidelines for Checking/Reviewing The Work of Another Engineer	Guidelines for Checking/Reviewing The Work of Another Engineer -Table A : Table of Guidelines		
Circular No. 5/2005	General Advice On Giving Of Second Opinion			
Circular No. 1/2009	Payment of Stamp Duty		6	



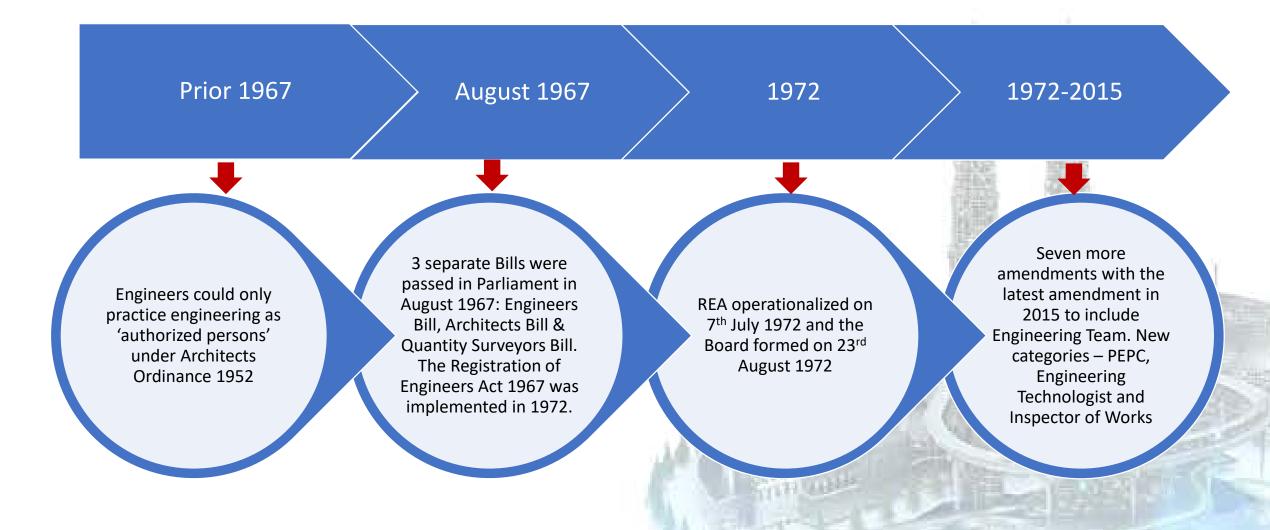
BEM Guideline

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

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The Registration of Engineers Act 1967 (REA)



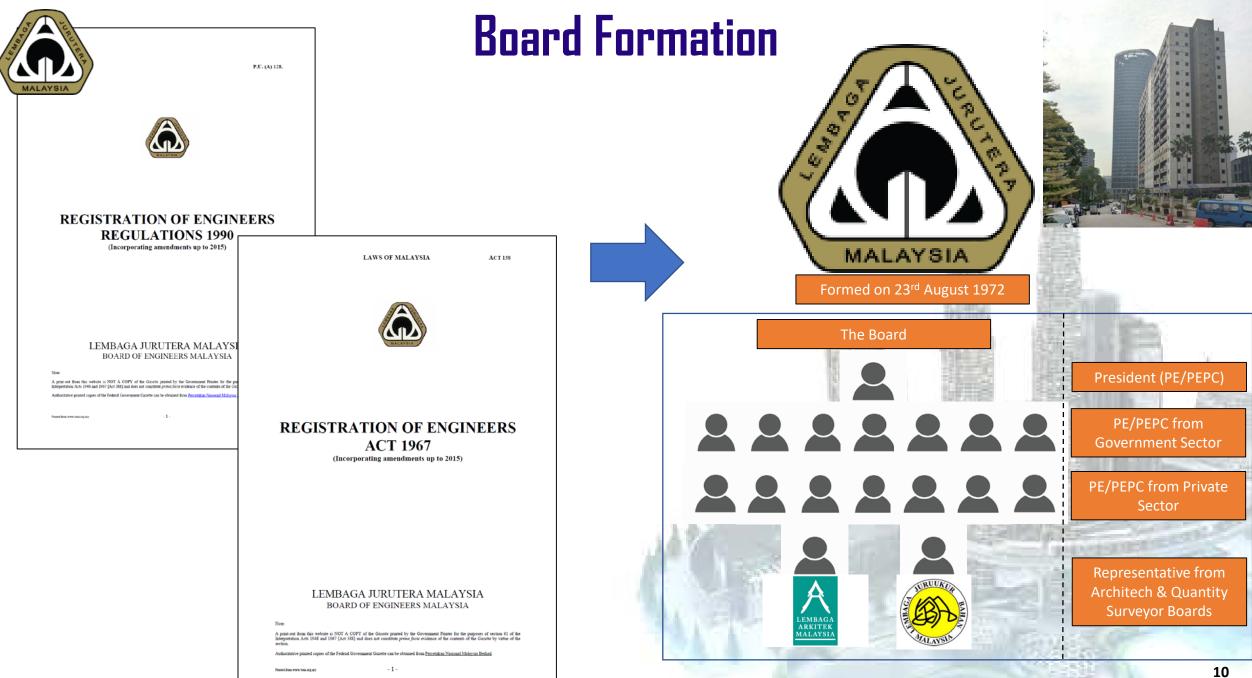


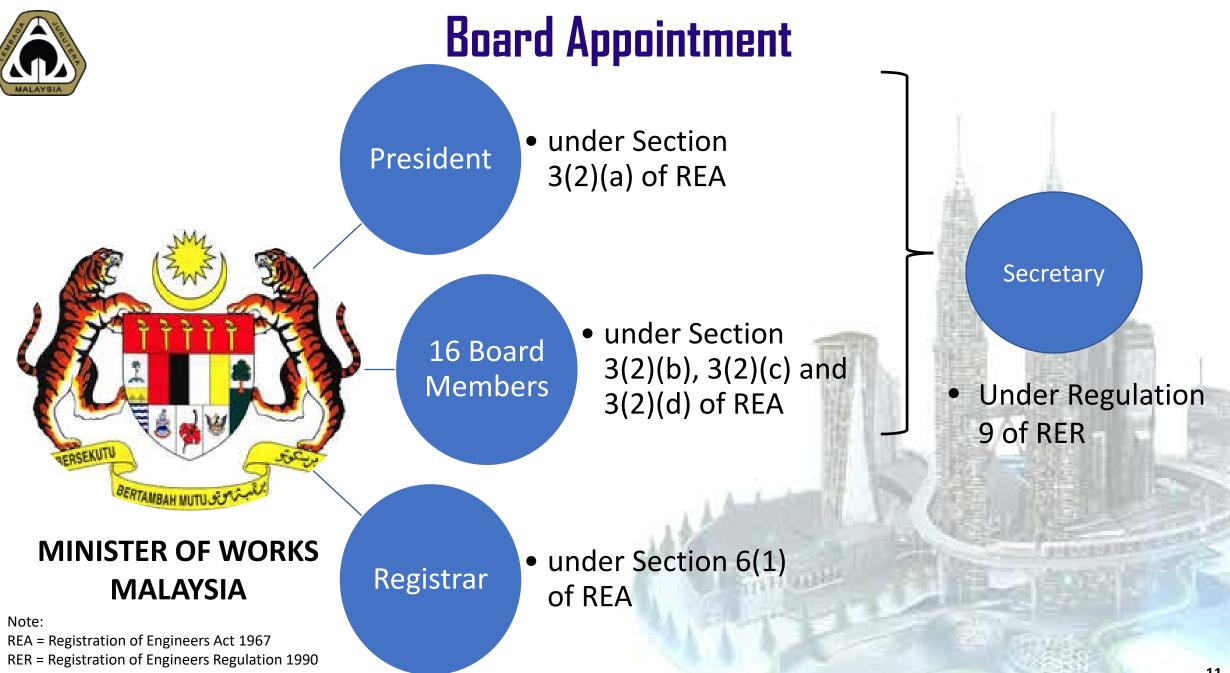
Introduction

Board Formation

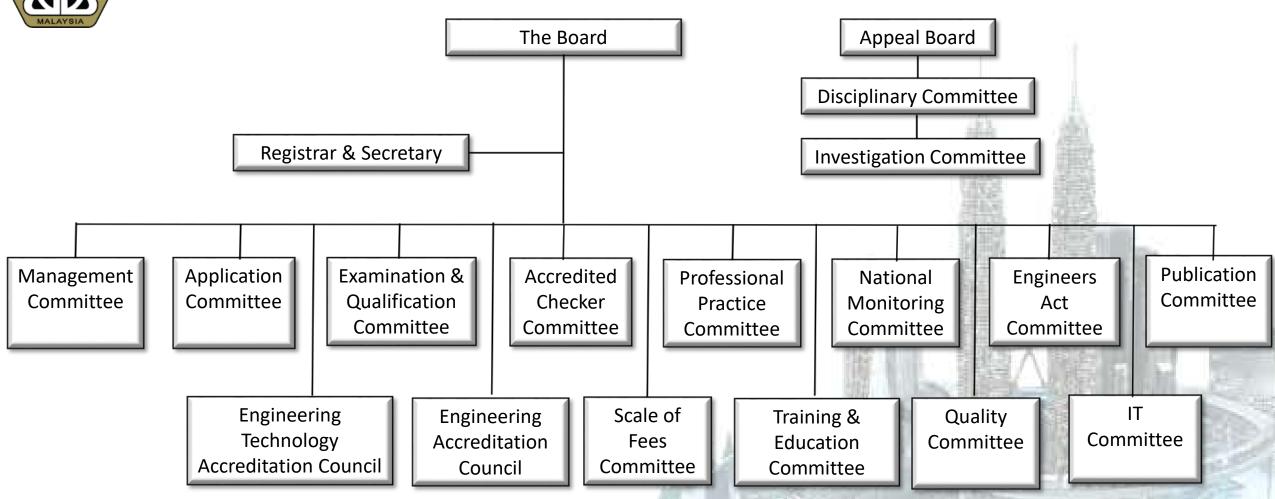
Role and Function







Committee Organization Chart



CONTRACTOR OF A



Introduction

Board Formation

Role and Function

Board Functions

eb) To employ any person, as it deems

necessary, to assist the Board in carrying out

its functions/powers/duties

a) To keep and maintain the Register

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

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

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

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

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

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

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

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

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

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

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

f) To determine & regulate the conduct and ethics of the engineering profession ₁₄





Management Committee

Finance matter

Procurement matter

Administration matter



LAWS OF MALAYSIA

ONLINE VERSION OF UPDATED TEXT OF REPRINT

Act 240

STATUTORY BODIES (ACCOUNTS AND ANNUAL REPORTS) ACT 1980

As at 1 December 2011

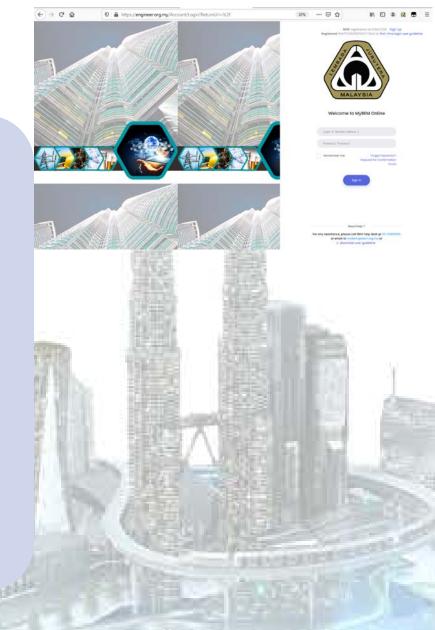


Application Committee

Maintain the Register

Approve application

Reject application



Board Functions

	eth) To employ any person, as it deems necessary, to assist the Board in carrying out its functions/preserv/duties			
b) To approve or reject applications (registration under this Act or to approv such application	o keep and maintain the Register	() To appoint a committee to conduct MM) for to purpose of admission as PE & PCE for the rprov of lossing a Practicing Contribute to PE		
a)		is appoint any person to represent the Board in any committee (person biologication) with momentations to the Board on qualifying matters for admission to the profession		
e) To fix from time to time the scale of fees to be charged by registered Engineers & E professional engineering services rend		ef) To appoint a book consisting of members one the Board, FE & other persons to advice the a & public on matters relating to engineering application and the certification of cash programs		
 a) To hear & determine or appoint committee/arbitrator on disputes relation 	To approve or reject applications for registration under this Act or to approve any such application	The country preparation of the last conduction for		
ex) To act as a stakeholder in a contract professional engineering services, when	carry out the productions of the Act	To determine & regulate the conduct and ethers of the engineering profession 17		



Registration Type

Registered Person

- Graduate Engineers
- Professional Engineers
- Inspector of Works
- Engineering Technologist
- Professional Engineers with Practicing Certificate

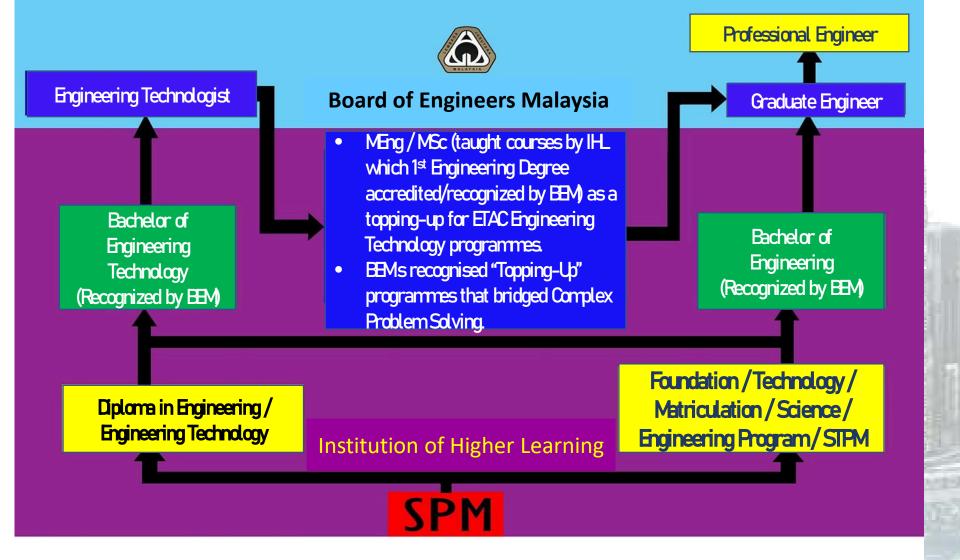
Business Entities

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

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Engineering Academic Pathway





Examination & Qualification Committee

PAE

PCE

Qualifying Policy

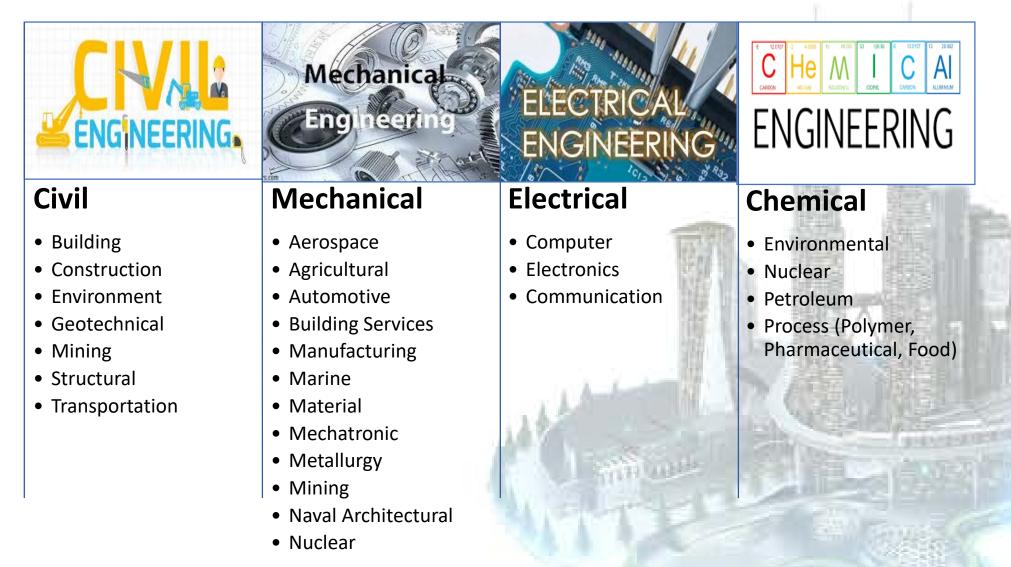


Board Functions

a) To keep and maintain the Register		etc) To employ any person, as it deems necessary, to assist the Board in carrying out	no) To pro B reduced developer	eide facilities for promotion of learning ion and to hold/cause the professional ent programmes, incl. CPD program for g fates) knowledge to that profession
b) To approve or reject applications registration under this Act or to appro- such application	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		point a committee to conduct RME for read of admission as PE & PCS for the of issuing a Practicing Contificate to PE	
c) To order the issuance/imposition at assessing/reprimand, fire, suspensis cancellation, removal/reinstatement of EE & IV			int any person to represent the Board In termities/persel/institution with endations to the Board on qualifying its for admission to the profession	
d) To fix from time to time the scale of the charged by registered Engineers & I professional engineering services rend		To cause examinations to be con by an institution recognized b		and the contribution of each second rate.
e) To hear & determine or appoint committee/larbitrator on disputes relat professional conduct/lethic of registered	Board for the purpose of admission to the profession		or examinations to be conducted by fron recognized by the Board for the re of admission to the profession	
ea) To act as a stakeholder is a contract professional engineering services, whe requested	-	g) Generally, to do all as are necessary to carry out the provisions of the Act	1) To det ethe	21

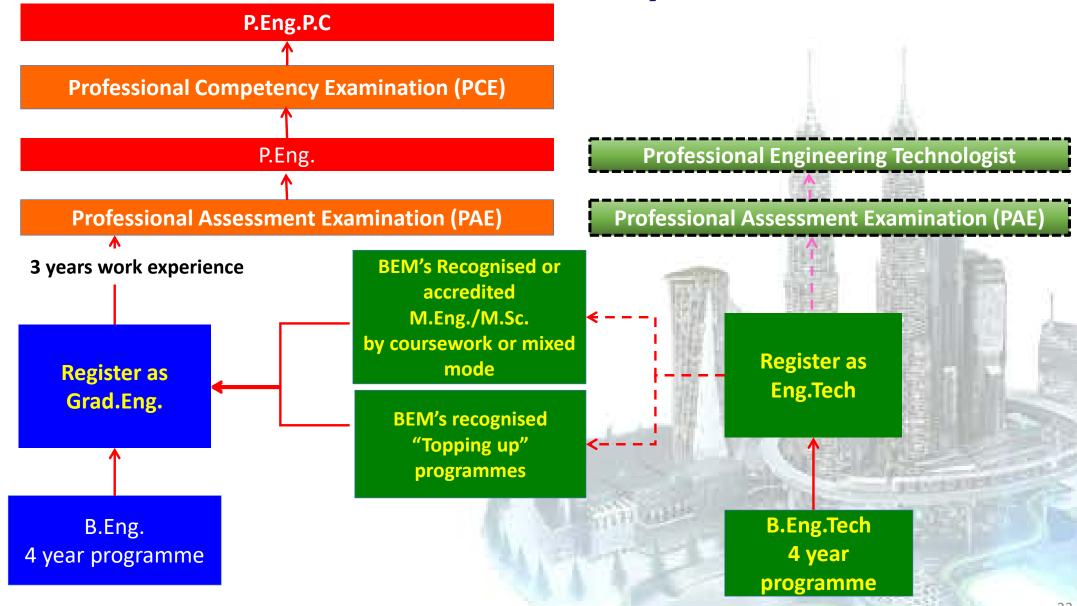


Engineering Branch/Discipline





Professional Pathway









About Us Vision & Mission Function EAD EAD Structure Download Photos Archiv



CORONAVIRUS (COVID-10) F

ANNOUNCEMEN

EAC & ETAC GUIDING PRINCIPLES ON

TEACHING-LEARNING AND ASSESSMENT IMPLEMENTATION DURING COVID19 PANDEMIC

ACCREDITED PROGRAMME

2020

Accredited Programmes (Overseas)

Engineering Accreditation Council

Maintain list of accredited engineering degree programs

Accrediting Engineering Degree Program

Develop best practice in engineering education

Board Functions

essary, to assist the Board in carrying o 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

c) To hear & determine or appoint committee/arbitrator on disputes relating to releasional conduct/ethic of registered Person

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

g) Generally, to do all as are necessary to carry out the provisions of the Act eg) To cause examinations to be conducted by an institution recognized by the Board for the purpose of admission to the profession

1 be determined to require the conduct and at 25







Washington Accord Signatories





Engineering Technology Accreditation Council

Maintain list of accredited engineering technology degree program

Maintain list of accredited engineering/engineering technology diploma program

Accrediting engineering technology degree and engineering/engineering technology diploma program **ETA**





Engineering Technology Accreditation Council

Contact Us



Board Functions

a) To keep and maintain the Register

elb) To employ any person, as it deems necessary, to assist the Board in carrying out its functions/presers/duties ec) To provide facilities for promotion of learning & education and to hold/leave the professional development programmes, incl. CPO program for enhancing latest knowledge to that profession.

ed) To appoint a committee to conduct RMJ for the purpose of admission as PE & PCE for the involves a Practicing Centificate to PE

regularition under this Act or to approve i such application

c) To order the issuence/impo warning/reprimand, fire, s cancellation, removal/reinstation EI & N

d) To fix from time to time the be charged by registered Engin professional angineering servief) 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 any person to represent the Board I whiten (person to the Board on qualitying for administration to the problemies) and a book consuling of members of a book consuling of members of a book consultant persons to advice the construction of each programming construction of each programming construction of each programming

c) To hear & determine or appoint committee/arbitrator on disputes relating to releasional conduct/ethic of registered Person

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

g) Generally, to do all as are necessary to carry out the provisions of the Act (g) To cause examinations to be conducted by an institution recognized by the Board for the purpose of admission to the profession

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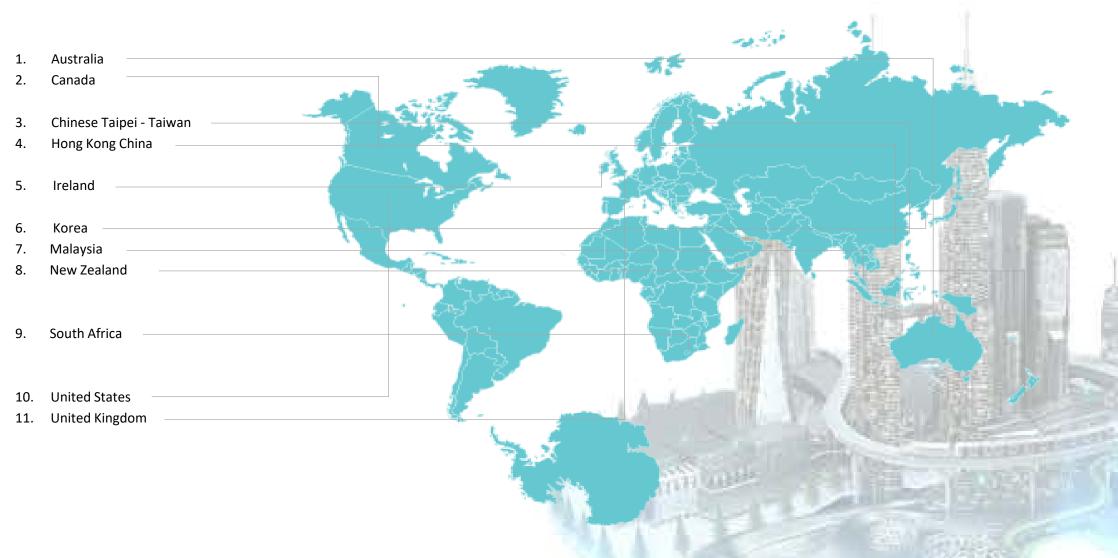








Sydney Accord Signatories



Accredited Engineering Diploma – 142 programs at 34 IHLs





Dublin Accord Signatories





Professional Practice Committee

assessing complaints and disputes relating to conduct or ethics of registered Persons and ECPs

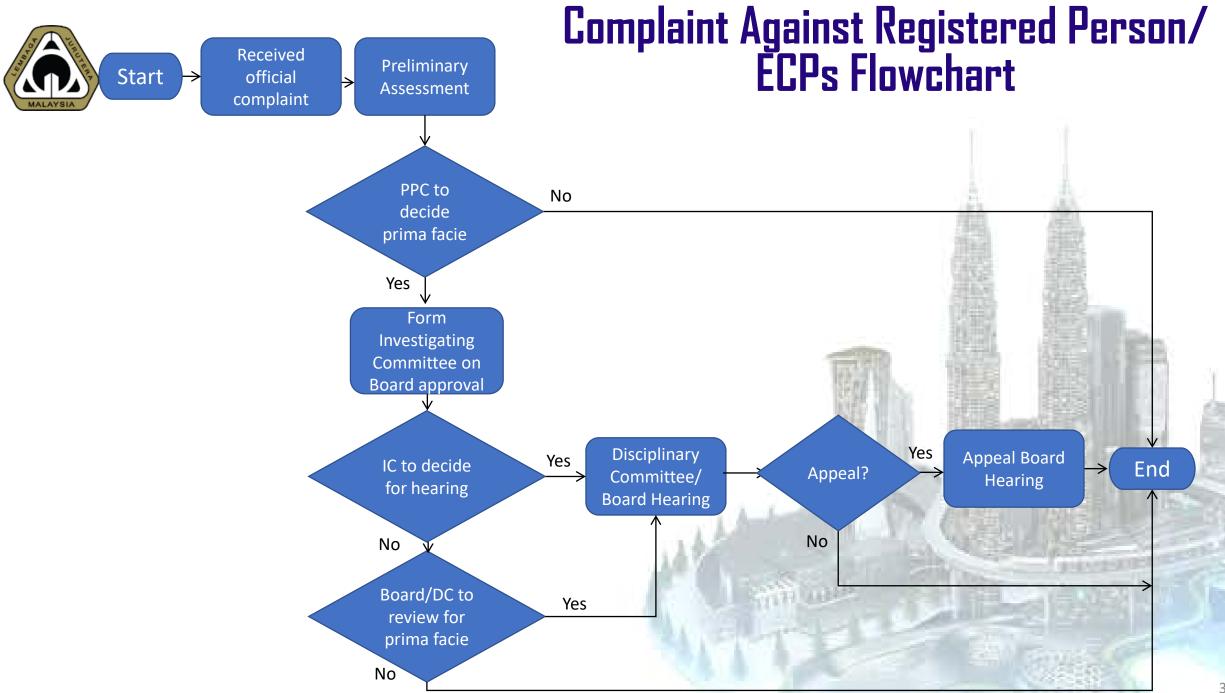
recommend to the Board the appointment of IC for cases where PPC finds there are *prima facie* grounds for further investigation

Prepare code of conducts, circulars and guidelines on matters relating to professional practice



Board Functions

	etc) To employ any person, as it deems	To provide facilities for promotion of learning
a) To keep and maintain the Re		ppoint
b) To approve or reject application registration under this Act or to application such application	committee/arbitrator on disputes reland professional conduct/ethic of reg Persons	at a supported lines has supported that has
c) To order the issuence/imposition		my person to represent the Board in
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d) To fix from time to time the scale be charged by neglstered Engineers professional angineering services	requested	
e) To hear & determine or ap committee/arbitrator on disputes professional conduct/lethic of registe	 f) To determine & regulate the conduc ethics of the engineering profession 	t and
ea) To act as a stakeholder in a co- professional engineering service requested		35





Lodged Complaint Case

Complaint Against	New Case	Prima Fa	acie Case
Registered Person		Yes	No
2017	47	28	19
2018	66	23	43
2019	59	38	21
			With Belleville

Issuance of Certificate of Completion and Compliance (CCC)

623 FORM F (CCC)

Received in 2019

BORANG F

PERAKUAN SIAP DAN PEMATUHAN [Undang-Undang Kecil 25]

> No. Siri: LJM/T/ 0358 Tarikh :

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 kerja/kerja-kerja itu adalah mengikut Akta, Undang-undang Kecil Bangunan Seragam (Terengganu) 1984 dan pelan-pelan yang diluluskan. Saya dengan ini memperakui 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)

Pemaju, jika ia adalah untuk pembangunan selain rumah berasingan yang dibina secara tunggal atau, pemunya jika ia adalah untuk rumah berasingan yang dibina secara tunggal.

SALINAN ASAL

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Stakeholder Case

	21
Stakeholder Cases in 2019	Amount Deposited to BEM as Stakeholder in 219
5	RM560,000.00



Accredited Checker Committee

Maintain the Register

Approve application

Reject application

Board Functions

a) To keep and maintain the Register		etc) To employ any person, as it deems necessary, to assist the Board in carrying out its functions/presers/duties		
b) To approve or reject applications for registration under this Act or to approve at such application.	a) T	o keep and maintain the Registe	er	
c) To order the issuance/imposition written warring/reprimand, fire, suspension, cancellation, removal/remutatement of Part III & IV				
d) To Ra from time to time the acate of fees be charged by registered Engineers & ECP 1 professional engineering services rendered	b)	To approve or reject application	ons	is appoint a body consisting of members to based. PE & other persons to advice the public on matters relating to engineering for the contribution of such programs
c) To hear & determine or appoint committee/arbitrator on disputes relating professional conduct/athic of registered Pers		for registration under this Act of approve any such application		
ea) To act as a stakeholder is a contract for professional engineering services, when		g) Generally, to do all as are necessary to	1976	



Statistic & Requirement

Accredited Checker	2020
Structural	14
Geotechnical	14
TOTAL	28

Bill Street, Drainage and Building Act (Amendment) 2018:

Sub Section 70 (2)(c):

"to local authority or the relevant statutory authority a geotechnical report for erection involving slope with a gradient more than twenty five degrees and total vertical height more than ten meters which the report shall be verified by the Accredited Checker registered with the Board of Engineers under the Registration of Engineers Act 1967"

Requirement for registration

- (a) **Professional Engineer with Practising Certificate;**
- (b) at least 10 years relevant practical experience in the design and construction of buildings as defined in the Street, Drainage and Building Act 1974 [*Act 133*]; and
- (c) he satisfies the Board that by virture of his ability, standing in the profession, special knowledge or practical experience.



Engineers Act Committee

attend to any enquiry pertaining to the Engineers Act and Regulations;

Advise Board on other Acts and Bills that may affect or infringe the engineering profession

Draft amendment of REA and RER



History of Act 138

- 1967 The REGISTRATION OF ENGINEERS ACT 1967 was enacted (Act No. 66 of 1967)
- **1972** Amendments (Act A132 Operationalised on 7.7.1972)
- **1972** Amendments (Act A173 23.8.1972)
- **1974** Amendments (Act A218 22.2.1974)
- 1987 Revised to be REGISTRATION OF ENGINEERS ACT 1967 (Revised 1987) (Act A662 - 16.1.1987)
- 2002 Revised to be REGISTRATION OF ENGINEERS ACT 1967 (Revised 2002) (Act 1158 - 1.12.2002)
- 2007 Revised to be REGISTRATION OF ENGINEERS ACT 1967 (Revised 2007) (Act A1288 - 1.4.2007)
- 2015 Amended to be REGISTRATION OF ENGINEERS ACT 1967 (Revised 2015) (Act A1479 - 31.7.2015)



Mandatory Registration for Employment

Section 7(1)(a)

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

Section 7(1A)(a)

"<u>A person shall not</u>, 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"



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.



PE & PEPC

Section 8(1)

"....no person or body, other than a Professional Engineer with Practicing Certificate who is residing and practicing in Malaysia or an Engineering Consultancy Practice providing professional engineering services in Malaysia, shall be entitled to submit plans, engineering surveys, drawings, schemes, proposals, reports, designs or studies to any person or authority in Malaysia."

Section 8A

"A Professional Engineer may submit plans or drawings to any person or authority in Malaysia where such plans or drawings are in relation to an equipment, a plant or a specialized product invented or sold by him or his employer.





Section 24(h)

"Any person, sole proprietorship, partnership or body corporate who contravenes section 7 or 8, or subsection 7A(1), 24A(1) or 24B(5) shall be guilty 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."



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.

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Electricity Regulations 1994 (Amendment 2013)

Section 47 "Eligibility to become Competent Electrical Engineer"



Scale of Fees Committee

Review SOF from time to time and make recommendation to the Board

attend to any enquiry pertaining to the Engineers Act and Regulations;

Draft amendment of SOF

Board Functions

a) To keep and maintain the Register

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/leave the professional development programmes, incl. CPO program for enhancing latest knowledge to that profession

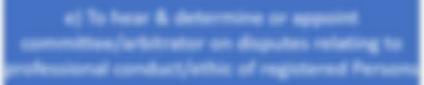
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d) To fix from time to time the st be charged by registered Engine professional angineering service d) To fix from time to time the scale of fees to be charged by registered Engineers & ECP for professional engineering services rendered int any person to represent the Board is committee, person to represent the Board is endations to the Board on qualitying rs for administers to the profession period a book consisting of members bard, PE & other persons to advise the bit on members relating to engineering

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

f) to determine & regulate the conduct and attack of the engineering profession 52



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

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



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 250,000 500,000 1,000,000 2,500,000 5,000,000	10.00% 8.65% 7.60% 6.80% 6.00% 5.50%	8.25% 7.45% 6.85% 6.30% 5.65% 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.

REGISTRATION OF ENGINEERS ACT 1967

P.U. (B) 548.

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:

- 1. 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.
- 2. (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.



Quality Committee

Custodian of BEM's Quality Management System

Championing BEM's 5 Years Strategic Plan.

Custodian of BEM's Risk Management

To review the overall performance of the Board's QMS and make recommendations to the Board for effective enhancement of the QMS.





Corporate Focus

Vision

A highly respected and authoritative body in engineering that ensures safety, health and interest of the public.

Mission

Regulate engineering services provided are of high quality, delivered with due diligence, conforming to professional ethics and benchmarked to the best practices.





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.

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ISO 9001:2015 DUALITY MANAGEMENT SYSTEMS - Requirements Scope of Certification ULFILLING THE FUNCTIONS AS PRESCRIBED IN SECTION 4 OF THE REGISTRATION OF ENGINEERS ACT, 1967, INCLUSIVE OF: MAINTAINING REGISTER OF REGISTERED PERSONS; MAINTAINING REGISTER OF REGISTERED PERSON; MAINTAINING REGISTER OF REGISTERION; MAINTAINING REGISTERING PROFESSION; Insue date 16 February 2002 MAINTAINING REGISTER	STANDARDS MALANELA HORECOTO CRAMACATION MOT	MALATSIA		
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Companyia (1031-3) 1. Pesiation Data (Mertel) Section 2, P. O. Box 7035 Section 2, P. O. Box 705 S		Certificate no.	: QMS 00875	
Ter : 40-3-5544 46787 SIRIM QAS International Sdn. Bhd.	ICompany No. 41034-91 1, Persiaran Dato' Menteri Section 2, P. O. Box 7035 40700 Shah Alam Selangor Darul Ehsan MALAYSIA Tel : 60-3-5544 6404			



Training & Education Committee

To plan and monitor the implementation of CPD for registered persons.

To encourage, initiate, motivate and where necessary assist in the conducting of activities such as courses, workshops, seminars suitable for registered persons.

To keep abreast of development in the training and education of registered persons and to advise the Board.



Board Functions

e) To keep and maintain the Register	etc) To employ any person, as it deems necessary, to assist the Board in comping out its functions/preservy/duties	ec) To provide facilities for promotion of learning & education and to hold/Louse the professional development programmes, mcl. 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.		ed) To appoint a convertilier to conduct HKE for the purpose of admission as PE & PCE for the reserved issuing a Practicing Certificate to PE
le th	provide facilities for promo arning & education and to hol professional devel	d/cause opment
e	rogrammes, incl. CPD progra nhancing latest knowledge t rofession	and a basis consuling of members
e) To hear & determine or appoint committee/arbitrator on disputes relating to professional conduct/ethic of registered Person		
wa) To act as a stakeholder in a contract for professional engineering services, when requested	g) Generally, to do all as are necessary to carry out the provisions of the Act	58



CPD Requirement by Professional Bodies





Summary of Annual CPD Requirement

• For renewal annual Certificate of Registration:



























National Monitoring Committee

Perform the functions of the Monitoring Committee, i.e. MC as per Article of 4.2 of the ASEAN MRA on Engineering Services

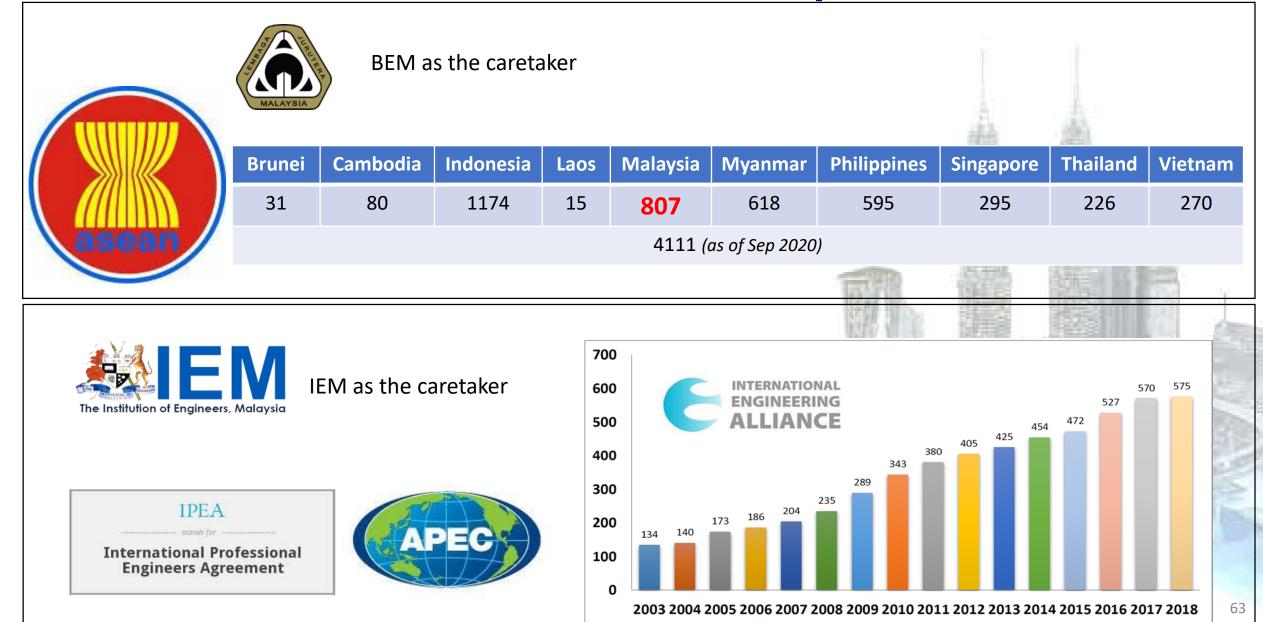
Represent the Board in meetings in meetings / conference in matter related to International Engineering Alliance such as APEC register, IntPE, Washington Accord, Sydney Accord and Dublin Accord

> Actively participate in international organisation: in matter related to best engineering practice to safeguard the Malaysian engineering discipline





Professional Mobility





Publication Committee

Define corporate identity and build up image of BEM among stakeholder

production of publications of BEM such as *The Ingenieur*, booklets etc.

drafts of publicity materials, information booklets, media releases and speeches and other related publication, which will support the role of BEM





Publication Activities



<



Ahli Lembaga dan Ahli Jawatankuasa serta seluruh warga kerja Lembaga Jurutera Malaysia mengucapkan





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BEM's Annual Report

Annual Report





Annual Report 2017

Muka Dua

55 program kejuruteraan dimansuh Langkah seiring kemajuan teknologi

Universiti awam, swasta gabung, ubah kursus bagi penuhi kebolehpasaran

Neh Ilah Hatiz Aziz Ilahhafiz.abdulaziz@bh.com.my Kuala Lumpur: Sebanyak 55 Eksklusif program kejuruternan di univer-siti tempatan di negara ini di gugurkan atas pelbagai faktor, ter-

masuk tisda permintaan daripada pelajar serta kandungan kursus engajian yang hampir sama di diakan hanyak kursus yang perlu diikuti pelajar tapi kita meng Ia juga haail kesedaran univer- esan sekurang-kurangnya hany

iti yang mahu menyedinkan gralima kursus yang berbeza," kaham kejurutersan yang memputanya. Beliau berkata, LJM dan EAC i kebolehnasaran serta seiring gan kemajuan dalam bidang sebenarnya sudah lama menya dari perkara itu tetapi tidak malu knologi tinggi semasa. Mendedahkan demikian, Pomengongkong universiti sebaliknya memberi garis panduan ur usi Majlis Akreditasi Keju-A RACY Prof In mik menentukan mana-mana ku

egat Johari Megat Mohd Noon sus young ditaw Singat anari sugar andari yangat ang sugar liki kebolehpa rsiti Teknologi MARA (UiTM). niversiti Malaya (UM), Univermempunyai perancangan ters diri termi alkinh bersama-sumi dengan industri. Kami beri ke

bebasan tetapi dengan kawa eM), Universiti Malaysia Savarış ketat," katanya ketika di-temul BH. Megat Johari menjelaskan, un-tara kawalan itu adalah menerwak (UNIMAS), Universiti Per-shanan Nasional Malaysia (UP-M) dan Universiti Malaysia Perasta yang terbabit tapkan 12 ciri dalam pengeluaran seorang jurutera antaranya mesti berasaskan ilmu dalam sains dan International University

ITD. Universiti Selangor (UNImatematik seria mampu melak EL), MAHSA Unive siti Multimedia (MMU), Univer siti Multimedia (MMU), Univer sity of Nottinghaam Malaysia (UNMC), Swinburne University "Universiti wajib berpandukan sanakan analisis, reka bentuk dar

dan Manipal International Uni- kepada 12 ciri ini untuk meng

Swinburn rendal

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

RABU, 23 OKTOBER 2019

55 PROG Gaji jurutera statik

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

UniMAF Kuala Lumpur: Kadar gaji jurutera tempatan tidak berubah sejak 20 tahun lalu, meskipun INTI negara mencapai tahap kemajuan ran

unisei dan pembangunan yang membanggakan Difahamkan, ketika ini gradu-MAHSA an baharu kejuruteraan hanya

menerima bayaran kurang MMI RM2,500 sebulan, bukan gaji lumayan seperti yang dipercayai

UNM masyarakat. Kadar gaji itu pula hanya di tawarkan di bandar besar seperti MI di Lembah Klang, di mana per-

mintaan pasaran adalah tinggi manakala kadar gaji di kawasan bukan bandar besar adalah lebih

Ahli Lembaga Jurutera Malaysia (LJM), Megat Johari Megat Mohd Noor, berkata universiti Compiled by DI tempatan menghasilkan kira-kira 10,000 graduan kejuruteraan se-nya akan menerima gaji sekitar



punca bidang kejuruteraan negara masih tidak meningkat ke tahap yang sepatutnya. "Industri tidak melihat kepada kemahiran dan mereka lebih ber-

minat mendapatkan tenaga luar seperti dari negara jiran yang akan menerima apa saja tawa-

sejak 20 tahun lalu

"Industri juga berasakan graduan kejuruteraan tidak bersedia untuk membuat kerja, tetapi tidak mahu melabur untuk memberi latihan dan pengalaman yang betul.

"Keadaan ini menyebabkan taraf gaji jurutera negara hari ini dalam keadaan tertekan kerana industri tidak berusaha untuk meningkatkan tahap kemahiran jurutera," katanya kepada BH. BH difahamkan, graduan kejuruteraan ditawarkan gaji seki-

tar RM2,500 dan hanya akan menikmati kenaikan setaraf selepas lima tahun Mereka yang ditawarkan jawa-



Industri hari ini dilihat lebih memberi peluang .kepada kepakaran dari luar seperti

Singapura. Mereka mewujudkan kilang di sini tetapi bila mahu menggunakan kejuruteraan dan teknologi baharu, mereka ke negara

iiran itu.

Megat Johari Megat Mohd Noor, Ahli Lembaga LIM



300,000

kepakaran

Malavsia perlu

Bayaran tak beruban Serint kekurangan

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

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

new account to continue

against them," said Rita, tan

Jarum Junior added that mampuan bakat tempatan, sekali

she blocked the individu dan graduan kejuruteraan tidak

unt, the individual keeps (menerima pengiktirafan dan gaji

"If they keep botheri dustr ketika ini lebih mengge-mari kapakaran dan teknologi

won't hesitate to take leg luar, khususnya dari negara ji-

called her fans to teach an Lembaga Jurutora Malaysia (LJM) mendapati lebih 5,000 sya-

al using the Instagram Irikat kejuruteraan ketika ini ti-

macdier_07 a lesson by tran perhaps and in the man prog-

screenshots of the mes masuk bidang penyelidikan.

kepakaran itu untuk mencapai tahap negara maju. Ini berikutan, keperluan bidang

150,000 jurutera

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 jurutera.

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 terhasil dalam pasaran kerjaya, manakala program kejuruteraan kimia pula terkesan akibat kejatu han industri minyak dan gas.

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

gara ini tidak mempercayai ke-

gus menyebabkan ramai jurutera

Situasi itu menyebabkan pem

berada dalam tekanan kerana in-

bangunan kejuruteraan negara

m, berbanding tenaga tempa-

Setiap program keiuruteraan perlu dilaksanakan dengan dasar dan asas vang 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 kejatuhan ini, namun universiti tidak boleh berdiam diri, sebalik nya 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-

an negara tidak membangun kat tempatan dan program pen-

didikan kejuruteraan juga amat

Bagaimanapun katanya, perka-

ra itu tidak seimbang dengan

tahap kejuruteraan negara masa

kini sehingga memberi kesan ter-

hadap pembangunan beberana

ruteraan ada di negara ini, tetapi

"Ribuan syarikat lain pula me-

lakukan pelbagai jenis projek,

tetapi mereka tidak mahu me-

labur dalam meningkatkan taraf

"Situasi ini memberi kesan ke-

pada negara dan boleh dikatakan

implikasi itu sudah mula dirasai.

kerana industri hari ini dilihat

hanya 600 sahaja yang melak

sanakan kerja penyelidikan.

Kira kira 6,000 syarikat keju-

industri negara.

bakat tempatan.

setanding dengan negara maju

pada tahap yang separutnya, mes-

kipun pelbagai usaha sudah di-

lakukan kerajaan untuk menca-

BH dimaklumkan, syarikat ke-

juruteraan di Malaysia ketika ini

tidak berminat untuk melabur.

dalam meningkatkan kemahiran

bakat kejuruteraan tempatan, se-

baliknya hanya menggunakan

penyelidikan serta kepakaran se

Keengganan industri untuk

memberi upah yang setimpal ke-

pada bakat tempatan menyebab-

kan gaji jurutera di Malaysia

jauh lebih rendah, berbanding di

negara lain dan tidak sepadan

Ahli Lembaga LJM. Megat Jo-

hari Megat Mohd Noor, berkata

dengan tahap kemajuan negara.

dia ada atau dari luar negara.

pai tahap negara maju.



Keratan BH 6 Disember lalu

Nasional

tanya kepada BH. baru-baru ini. mai teknologis kejuruteraan me Laporan BH Jumaat lalu, menmandangkan negara ketika ini sededahkan 55 program kejurutedang mendepani Revolusi Indus raan di universiti tempatan di netri 4.0 (RI 4.0). gara ini digugurkan atas pelbagai "Hampir 10,000 jurutera diha faktor termasuk tiada permintasilkan setahun, tetapi disebabkar an daripada pelajar dan kandubilangan teknologis kejuruteraar ngan kursus pengajian hampir salebih kecil mengakibatkan rama ma di setiap universiti.

graduan kejuruteraan ini menjalankan kerja yang sepatutnya di Ia membabitkan lima universiti awam dan tujuh universiti swasta. lakukan teknologis. Antara universiti berkenaan ada-"Graduan ini melakukan kerja lah Universiti Teknologi MARA lebih kepada operasi dan penye-(UiTM), Universiti Malaya (UM). lenggaraan meskipun pada dasar Universiti Teknikal Malaysia Menya mereka perlu terbabit dalam laka (UTeM), INTI International kerja perundingan dan pembina University (INTI), Universiti Sean," katanya. langor (UNISEL), MAHSA Univer-Megat Johari berkata, Akta Pen

sity dan Universiti Multimedia daftaran Jurutera 1967 (Pindaar (MMU). 2015) memberi kesamarataan ke Pengerusi Mailis Akreditasi Kepada dua kelompok ini melaksa juruteraan Malaysia (EAC) itu tunakan kerja profesional dan me

rut berkata, Malaysia sebenarnya

Singapura.

Syarikat tidak percaya bakat jurutera tempatan

mampu mengeluarkan lebih ra- bagi kedua-dua profesion ini.

Akibatnya, sektor perindustri- Malaysia mempunyai ramai ba- lebih memberi peluang kepada Megat Johari yang juga Pe kepakaran dari luar seperti ngerusi Majlis Akreditasi Keju "Mereka mewujudkan kilang di sini, tetapi bila mahu menggunakan kejuruteraan dan teknologi baharu, mereka ke negara jiran itu," katanya kepada BH. hap sepatutnya 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 memulihara bangunan sedia ada. "Mereka melakukan perkara ini apabila sedar kepentingan penyelidikan kejuruteraan," kata-

ruteraan Malaysia (EAC) men jelaskan, bakat kejuruteraan ne gara sememangnya cemerlang te tapi imej yang ada pada hari ini tidak meletakkan mereka di ta

mastikan tiada perbezaan status

taraf dunia kerana sistem pendidikan kita adalah yang terbaik ditawarkan kepada pelajar malah jika di luar negara, pelbagai pengiktirafan kita terima Jika

jurutera kita ke luar negara, me reka juga diterima baik. "Tetapi di Malaysia hari in

bidang kejuruteraan tidak me ngalami perubahan dalam sistem kerja dan ini boleh dilihat de ngan pembayaran (all kepada jurutera kita yang tidak tinggi,

"Bakat kejuruteraan kita ber-

katanya.

Engineers' salaries stagnant for 20 years Kuala Lumpur: Lebih 90 peratus warikat yang menyediakan perchidmatan kejuruteraan di ne-

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

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

Harian.

are paid a wage of around RM1,800 a month, said the daily.

^JBoard of Engineers member Prof Megat Johari 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," he said.

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

to leave the field.

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

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.



IT Committee

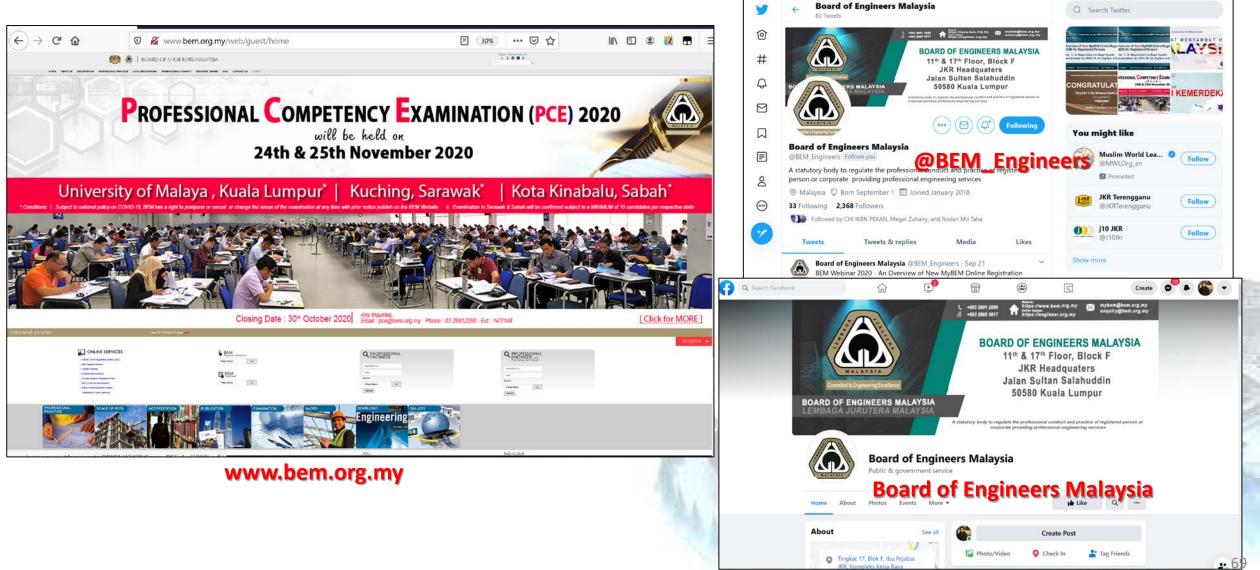
Develop, maintain and continuously update and improve the IT facilities and systems in BEM.

Responsible for monitoring and maintaining IT facilities and system in BEM.

Facilitate collation and receiving of information electronically

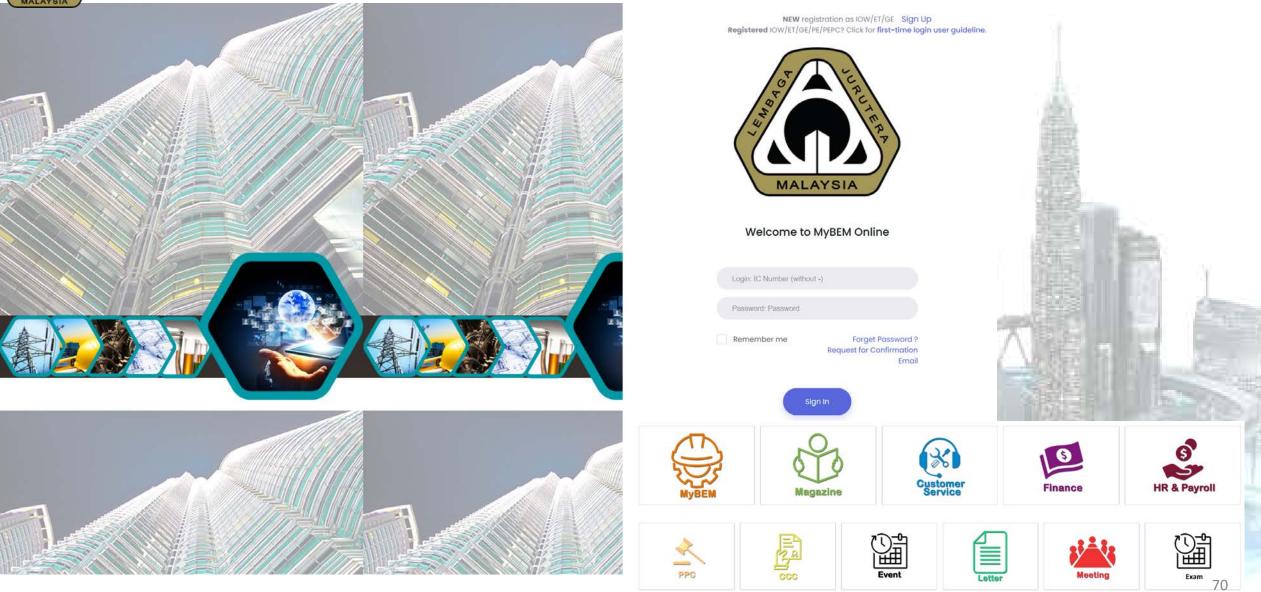


BEM Website & Social Media





BEM Online Portal





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.





Investigating Committee Case

Investigating Committee Recommendation	No Case (Tiada Kes)	Recommend for Hearing (Dicadangkan untuk Perbicaraan)	Under Investigation (Dalam Siasatan)
2017	9	11	25
2018	9	13	23
2019	14	36	10



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

73

Board Functions

a) To keep and maintain the Register
 b) To approve or reject applications for registration under the Act or to approve any each application.

c) To order the tassance/imposite warning/reprimand, fire, surp cancellation, removal/incinitations III & IV

d) To fix from time to time the aca be charged by registered Engineer professional engineering service c) To order the issuance/imposition written warning/reprimand, fine, suspension, cancellation, removal/reinstatement of Parts III & IV

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

ed) To appoint a committee to conduct MME for the purpose of admission as ME & MCE for the memory of issuing a Practicing Cartificate to ME

> nied any person to represent the Board I committee (perso) institution with mendations to the Board on qualitying ters for administers to the profession stand, et & constitution of mendators date on matters relating to engineering a leaf the certification of such programs

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

71 To defermine & regulate the conduct and

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

ex) To act as a stateholder in a contract for professional engineering services, when requested

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





Statistic & Requirement

Disciplinary Committee Hearing	Guilty (Bersalah)	Not Guilty (Tidak Bersalah)
2017	6	1
2018	9	-
2019	17	5

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.
- (1A) The orders referred to in subsection (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.

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



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

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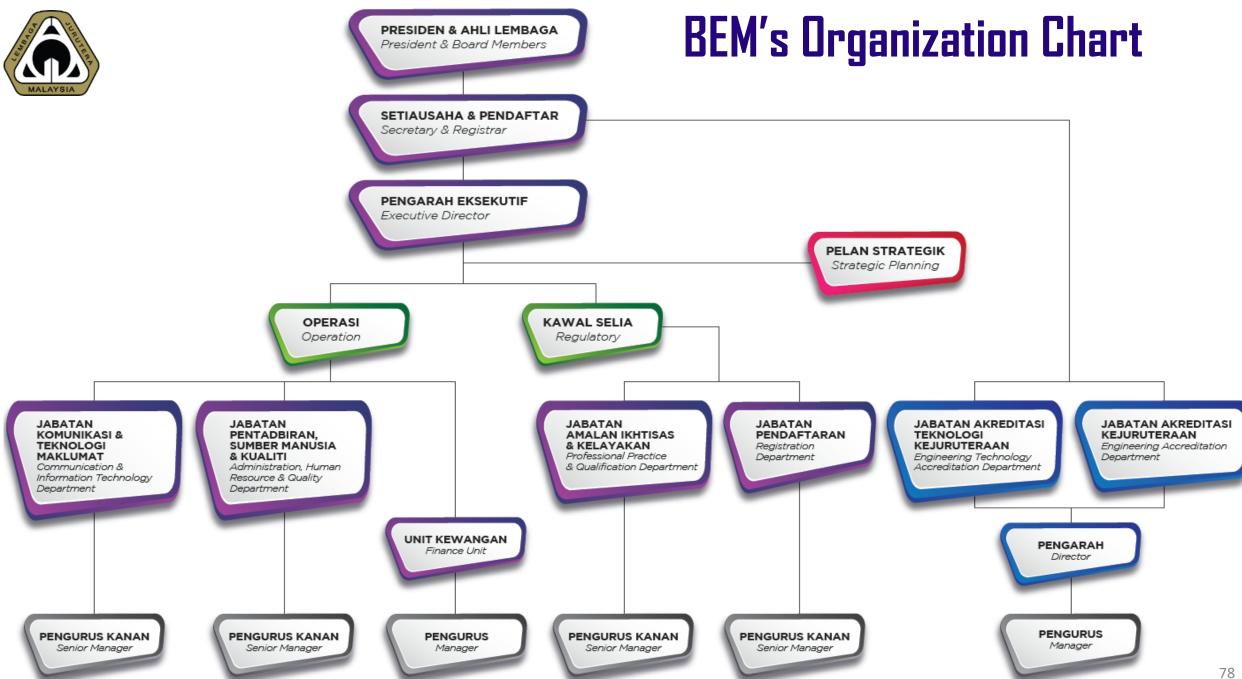


Statistic & Requirement

2017 1 - 2018 1 -	ct)
2018 1 -	
2019	

Appeal Board.

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.





Understanding The Different Roles

Board of Engineers Malaysia (BEM)

The Board of Engineers Malaysia (BEM) is a <u>statutory body</u> constituted under the <u>Registration of Engineers Act 1967</u>. 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 <u>Registrar of Society</u> 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 <u>statutory body</u> constituted under the <u>Technologist and Technicians Act 2015</u>. Its primary role is to recognise 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 Report 2018
- BEM Annual Report 2017



BOARD OF ENGINEERS MALAYSIA

Tingkat 11 & 17, Blok F Ibu Pejabat JKR Jalan Sultan Salahuddin, 50580 Kuala Lumpur <u>http://www.bem.org.my</u>

<u>enquiry@bem.org.my</u> or <u>complaint@bem.org.my</u>. Tel: 03-26912090; 03-26107095/96 Fax: 03-26925017