

Title: Mandatory Registration

Presenter Name: Ir. Mohd Noramil bin Mohd Daril

Date: 13.11.2024

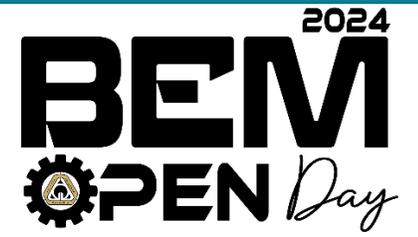
Venue: Waterfront Hotel, Kuching, Sarawak

Title & Content

- Introduction
- Registration
- Qualification
- Licensing
- Regulating



Outline of Presentation



Introduction

BEM's Roles and Function

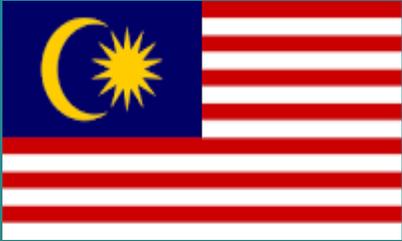
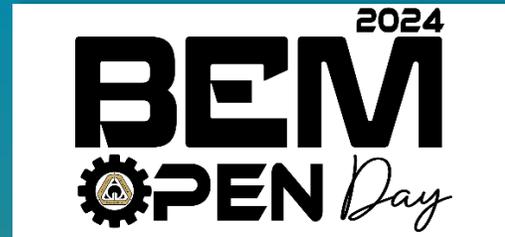
Registration

Qualification

Licensing

Regulating

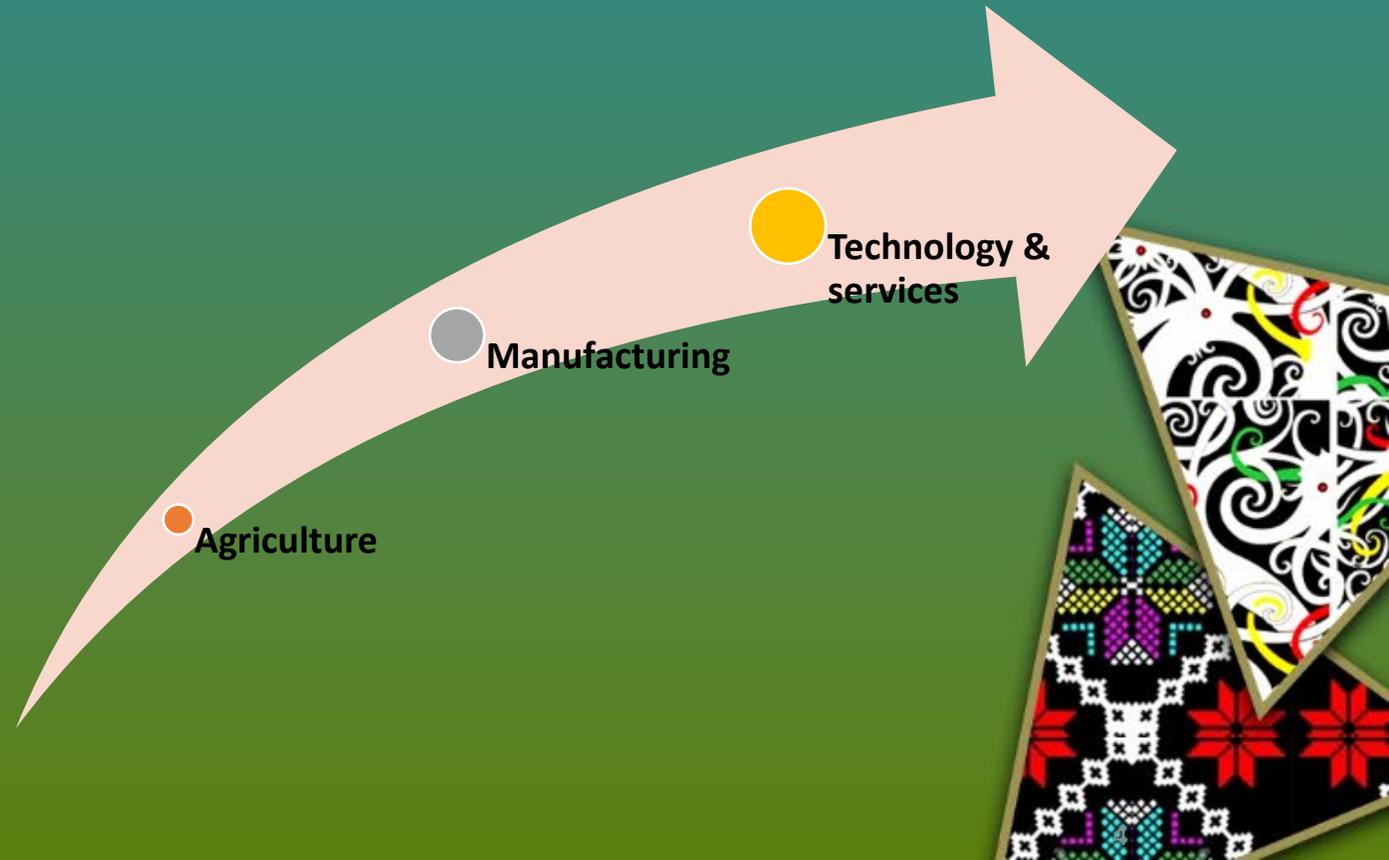
Malaysia's Economic Development Journey



Malaysia has successfully transformed from a predominantly agriculture-based economy in the 1970s, to a more diversified economic structure i.e. manufacturing, technology and services-driven.

SECTOR	GDP CONTRIBUTION (%)		
	1970	2015	2022
Agriculture	33.6	8.9	6.3
Mining	7.2	9.0	6.4
Construction	3.8	4.4	3.5
Manufacturing	12.8	23.0	24
Services	42.6	53.5	58.6

- **Services** the largest contributor to the Economy (58.6%). **Engineering** is one of the key elements in services.

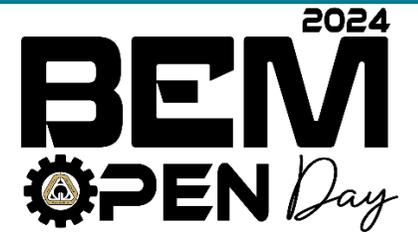


ENGINEERS TO POPULATION RATIO

COUNTRIES	RATIO
MALAYSIA	1:160
JAPAN	1:50
GERMANY	1:82
FRANCE	1:75
CANADA	1:120



Professional Regulatory Authority



Medical Act 1971



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

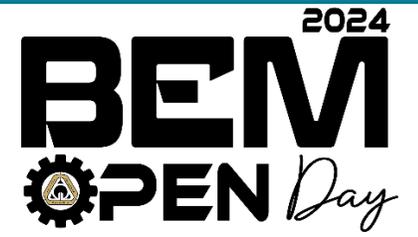
Architects Act 1967

“Engineering is the
closest thing to **magic**
that exists in the world”

- ELON MUSK

The best way
to predict the
future is to
invent it

Outline of Presentation



Introduction

BEM's Roles and Functions

Registration

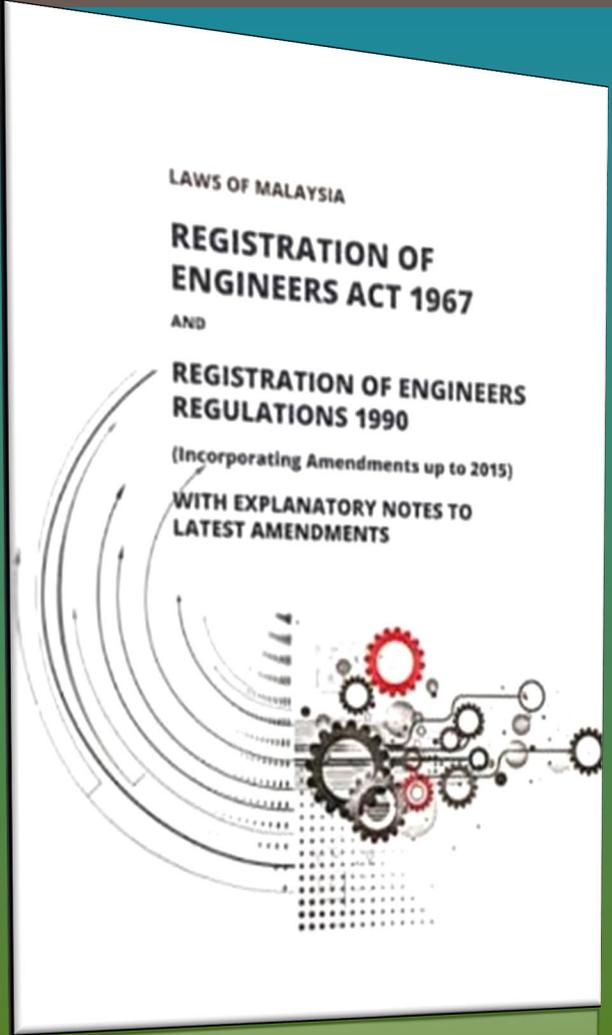
Qualification

Licensing

Regulating



THE REGISTRATION OF ENGINEERS ACT 1967 (ACT 138)



To 1 - ÁšπÆ šÑπ 1 Đ' €Æ by legislative control so that the practice of engineering, which has a bearing on public safety, health and welfare, can only be carried out by licensed professional engineers.

ÇÁ Æπ†šπ † -π«ÆšÁĜ "ÁĜ with mandate to carry out licensing of professional engineers and regulation of the profession

ÇÁ , πš -π«ÆšÇÁ , pertaining to the practice of engineering; qualifications for licensing; and code of professional conduct for registered engineers;

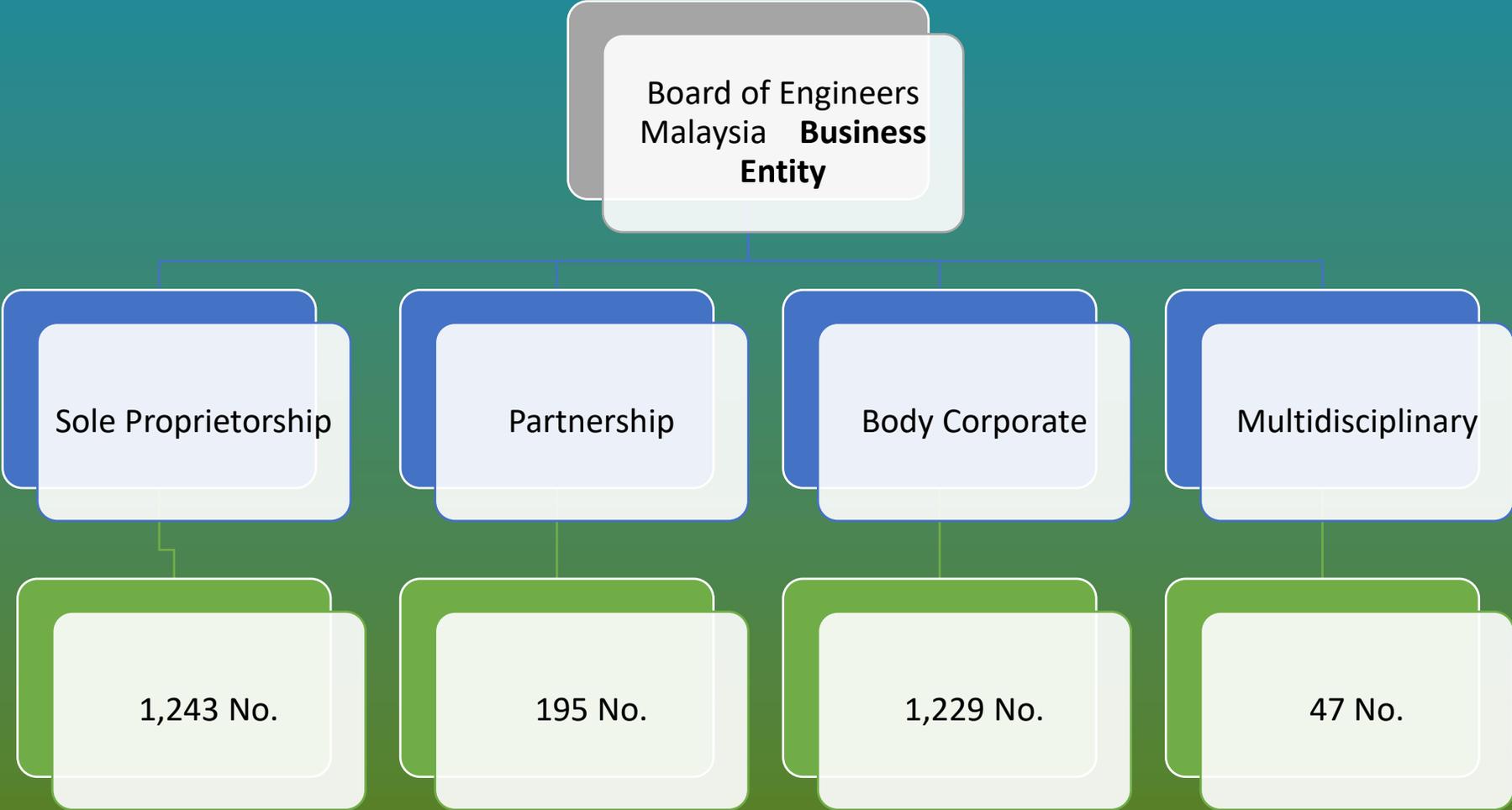
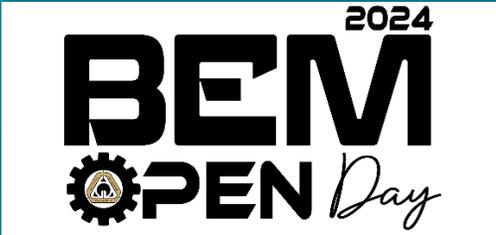


Maintain registry

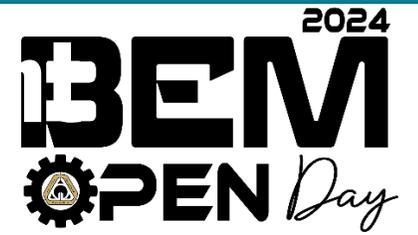
Engineers • Engineering Technologists • Inspectors of Works



THE REGISTRATION OF ENGINEERS ACT 1967 (ACT 138)



Mandatory Registration for Employment



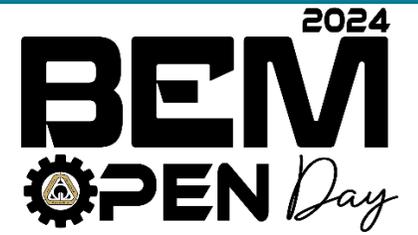
Section 7(1)(a)

*“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**”

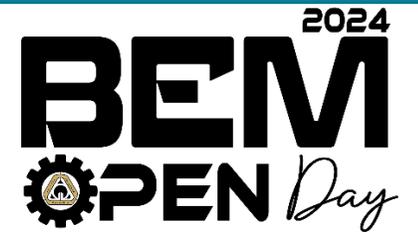
Section 7(2) (aa)

“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

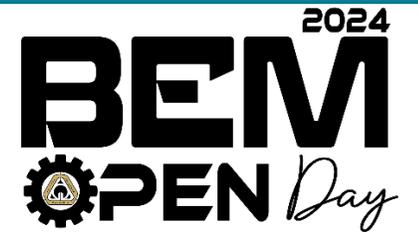


Section 7A(1)

“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.



Assess qualifications

Accreditation Councils (EAC & ETAC)

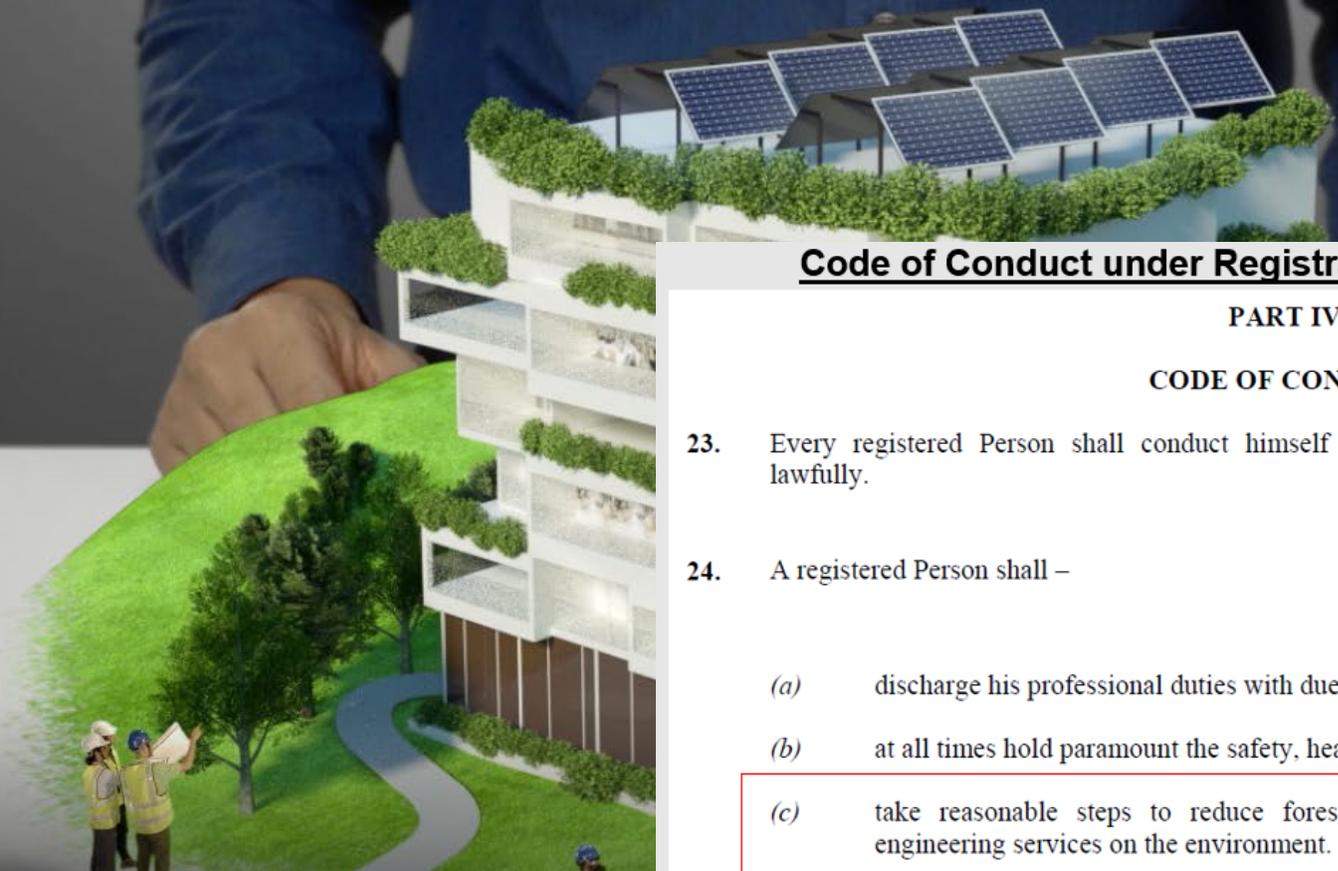
	Active Programmes	Institutions of Higher Learning		Active Programmes	Institutions of Higher Learning
Bachelor of Engineering	251	59	Degree	92	18
			Diploma	273	72



FUNCTION OF BEM



- Regulate practice & conduct
- Ensure public safety and health



Code of Conduct under Registration of Engineers Regulation 1990

PART IV

CODE OF CONDUCT

		[P.U. (A) 173./2015]
23.	Every registered Person shall conduct himself honourably, responsibly, ethically and lawfully.	Conduct of registered Person. [P.U. (A) 173./2015]
24.	A registered Person shall –	Responsibility to employer, client or profession. [P.U. (A) 173./2015]
(a)	discharge his professional duties with due skill, care, diligence and good faith;	[P.U. (A) 173./2015]
(b)	at all times hold paramount the safety, health and interest of the public; and	[[P.U. (A) 173./2015]
(c)	take reasonable steps to reduce foreseeable adverse effects of professional engineering services on the environment.	[P.U. (A) 173./2015]

Promote continuous learning

Continuing Professional Development Programmes (CPD)

SAFETY FIRST



Conduct professional examinations

Professional Assessment
Examination
[PAE]



Outline of Presentation



Introduction

BEM's Roles and Functions

Registration

Qualification

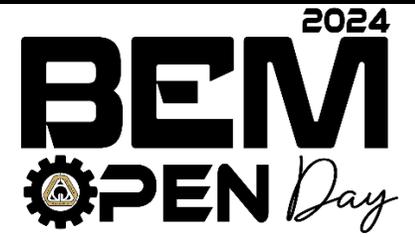
Licensing

Regulating





Graduate Engineer Registration



REQUIREMENTS

Section 10(1) defines the qualification for registration as a Graduate Engineer with BEM. A person who holds any qualifications in engineering which is recognised by the Board shall be entitled on application to be registered as a Graduate Engineer.

The recognised academic qualification for registration as a Graduate Engineer with BEM includes the following:

1. **Engineering Degree awarded by Malaysia:**

- An engineering degree accredited/recognised by Engineering Accreditation Council (EAC). The latest List of Accredited Engineering Programme (Malaysia) is available in EAC website at http://www.eac.org.my/web/list_accruited.html

2. Engineering Degree **awarded by Other Countries**

- The recognition of engineering degree from overseas (outside Malaysia) will be based on the accreditation given by professional body who is a signatory of **Washington Accord** (WA).
- In Malaysia, Engineering Accreditation Council (EAC) which comprises of BEM, MQA, JPA and IEM is the body accrediting engineering programme offered by local university.

3. **CAAM / DCAM Aircraft Maintenance License**

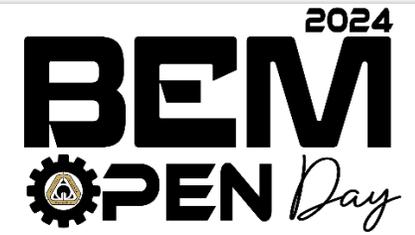
- Type **Category C** of Aircraft Maintenance Licence (AML)

4. **Certificate of Competency as Marine Engineer**

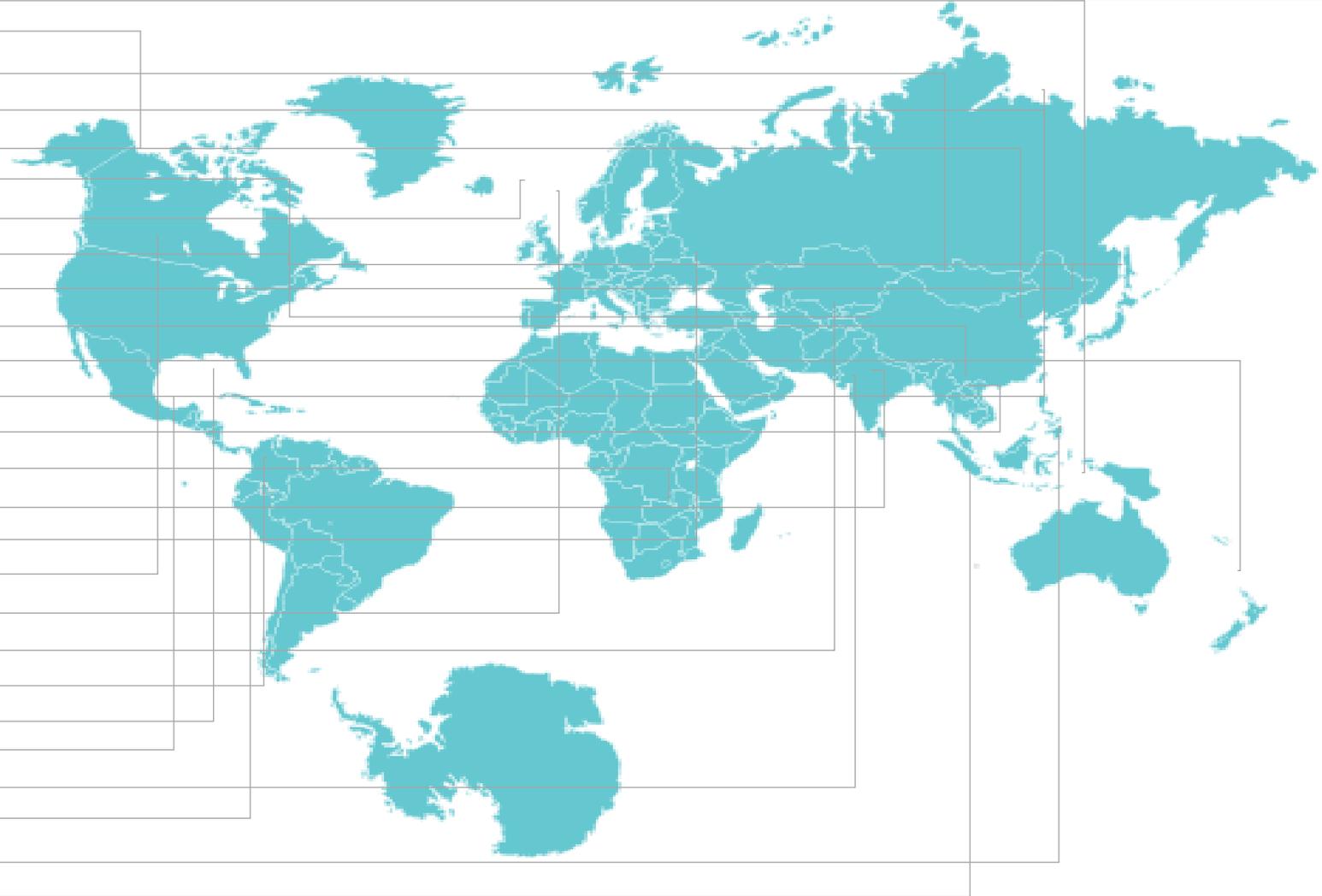
- **Class 1 Chief Engineer** (Senior Marine Engineer) or "holder of First Class Certificate of Competency (CoC) as Marine Engineer"



Washington Accord Signatories



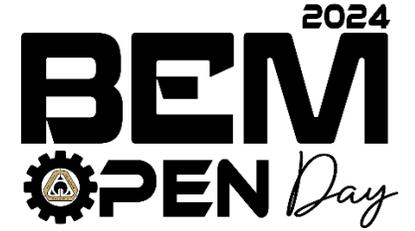
1. Australia
2. Canada
3. China
4. Chinese Taipei - Taiwan
5. Hong Kong China
6. India
7. Ireland
8. Japan
9. Korea
10. Malaysia
11. New Zealand
12. Russia
13. Singapore
14. South Africa
15. Sri Lanka
16. Turkey
17. United States
18. United Kingdom
19. Pakistan
20. Peru
21. Costa Rica
22. Mexico
23. Pakistan
24. Peru
25. Philippines
26. Indonesia





Engineering Technologist Registration

REQUIREMENTS



Section 10(C) explains the qualification for registration as an Engineering Technologist with BEM. A person who holds any qualification which is recognised by the Board shall be entitled on application to be registered as an Engineering Technologist. The recognised academic qualification for registration as an Engineering Technologist with BEM includes the following:

1. Engineering Degree awarded by Malaysia:

- Bachelor Degree in Engineering Technology accredited by the Board's Engineering Technology Accreditation Council (**ETAC**).
- For applicants graduating **before 1st January 2017**, degrees accredited by Malaysian Qualifications Agency (**MQA**) are accepted.
- For applicants graduating **after 1st January 2017**, degrees accredited by Malaysian Qualifications Agency (**MQA**) within the **six (6) years maximum** from the date of accreditation prior to 1st January 2017 are accepted.

2. Engineering Degree awarded by Other Country

- An engineering technology degree accredited by professional body who is a signatory of **Sydney Accord** (SA).
<http://www.ieagrements.org/accords/Sydney>
- In Malaysia, Engineering Technology Accreditation Council (ETAC) is the body accrediting engineering programme offered by local university.

1. CAAM / DCAM Aircraft Maintenance License

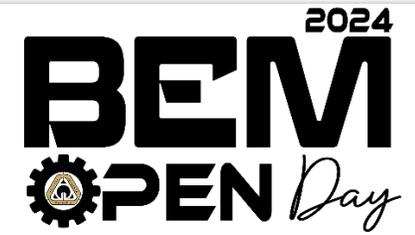
- Type Category B (with type rating) of Aircraft Maintenance Licence (AML)

2. Certificate of Competency as Marine Engineer

- Second Engineer (Senior Marine Engineer) or "holder of Second Class Certificate of Competency (CoC) as Marine Engineer"



Sydney Accord Signatories

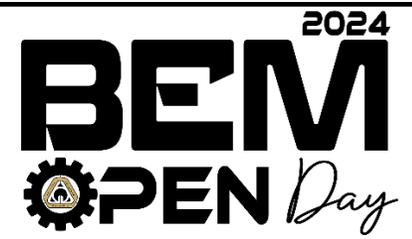


1. Australia
2. Canada
3. Chinese Taipei - Taiwan
4. Hong Kong China
5. Ireland
6. Korea
7. Malaysia
8. New Zealand
9. South Africa
10. United States
11. United Kingdom





Inspector of Works Registration



REQUIREMENTS

Subsection 10(E) stipulates the qualification for registration as an Inspector of Works with BEM. A person who holds any qualification which is recognized by the Board shall be entitled on application to be registered as Inspector of Works.

The recognized academic qualification for registration as an Inspector of Works with BEM includes the following:

1. Engineering Diploma awarded by Malaysia:

- Minimum Diploma in Engineering accredited by the Board's Engineering Technology Accreditation Council (ETAC).
- Minimum **Diploma in Engineering** accredited by Malaysian Qualification Agency (MQA) or equivalent recognised by BEM (**before 31st Dec 2018**)

2. Engineering Diploma awarded by Other Country:

- Diploma in Engineering accredited by professional body who are signatory of [Dublin Accord \(DA\) are accepted](#).

3. CAAM / DCAM Aircraft Maintenance License

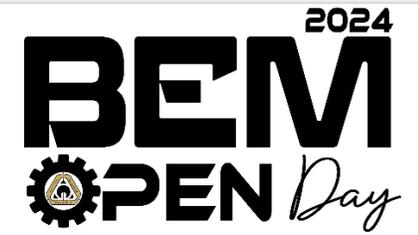
- **Type Category B (without type rating)** of Aircraft Maintenance Licence (AML)

4. Certificate of Competency as Marine Engineer

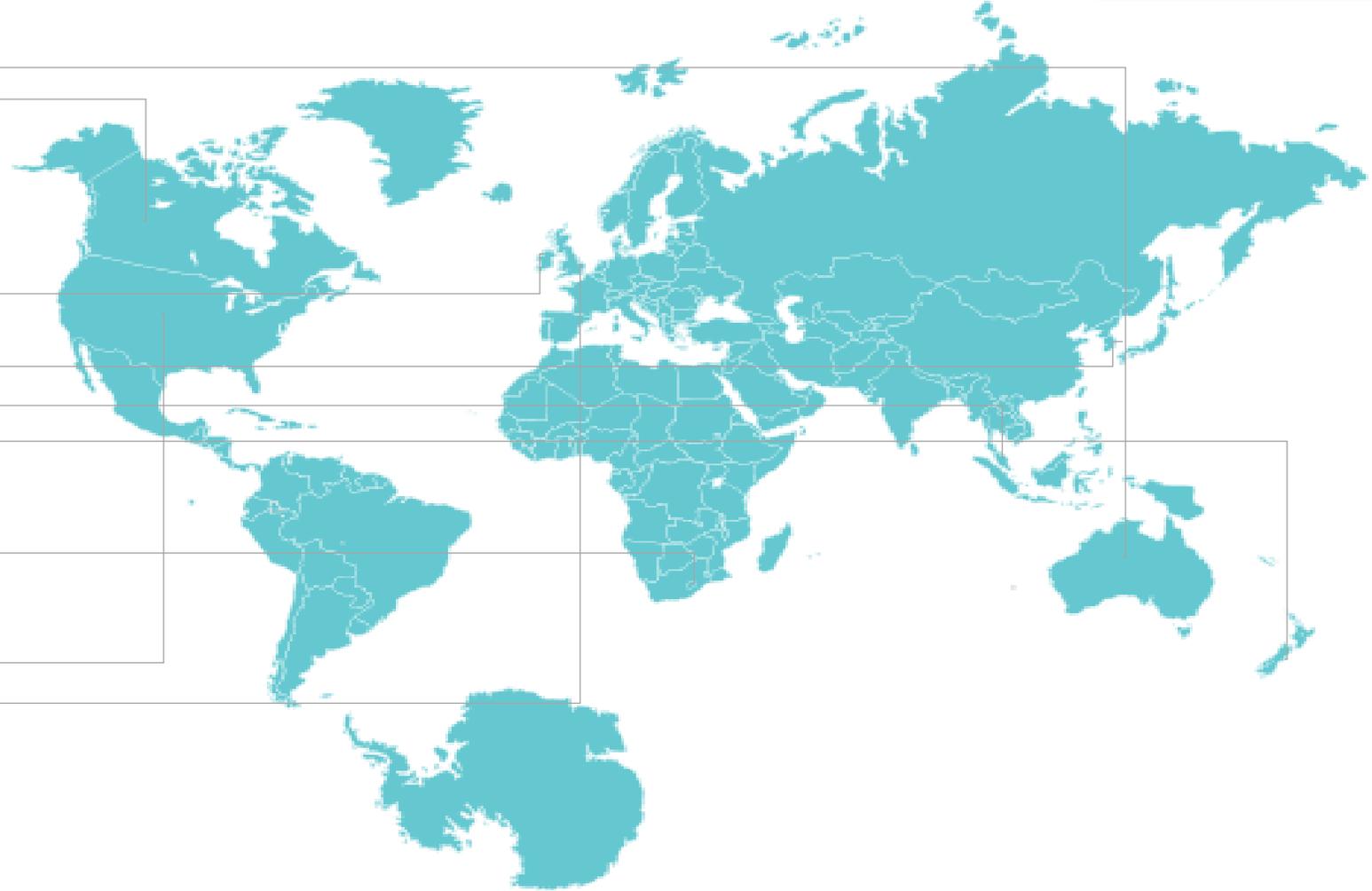
- Third, Fourth (Junior Marine Engineer) or "holder of **Fourth Class Certificate of Competency** as Marine Engineer"



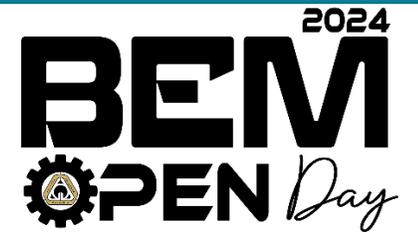
Dublin Accord Signatories



1. Australia
2. Canada
3. Ireland
4. Korea
5. Malaysia
6. New Zealand
7. South Africa
8. United States
9. United Kingdom



Outline of Presentation



Introduction

BEM's Roles and Functions

Registration

Qualification

Licensing

Regulating





Graduate Engineer Registration

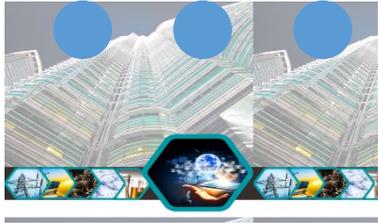


Submission

Approval Stage

Output

MyBEM Online Reg. System
www.engineer.org.my



Approval within 1 – 4 months

Download, print & save e-certificate.



Processing fee of RM 50.00

Copy of; degree scroll full official transcript;
AML, Cat C; CoC* Class 1 Marine Engr &
IC/MyKad (**duly certified by an active PE**)

(*Confirmation letter from Jab. Laut Malaysia)



LIST OF DISCIPLINES & SUB-DISCIPLINES



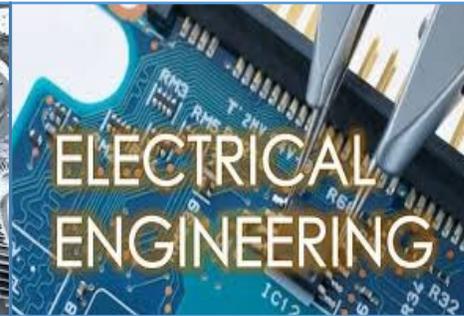
Civil

- Building
- Construction
- Environmental
- Geotechnical
- Mining
- Structural
- Transportation



Mechanical

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



Electrical

- Computer
- Electronics
- Communication



ENGINEERING

Chemical

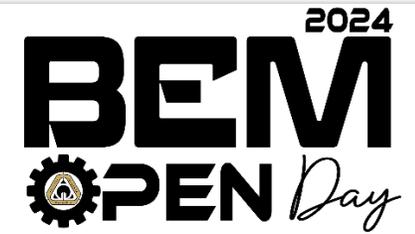
- Environmental
- Nuclear
- Petroleum
- Process (Fuel, Energy, Thermal)



Integrated



Engineer Technologist Registration

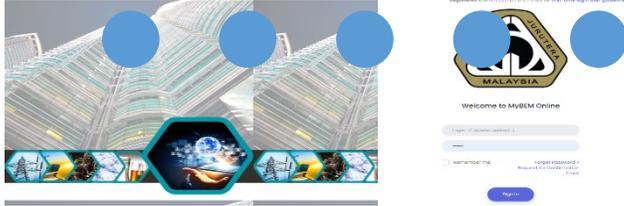


Submission

Approval Stage

Output

MyBEM Online Reg. System
www.engineer.org.my



Processing fee of RM 50.00

BEM
Application
Committee

Approval within 1 – 4 months

Download, print & save e-certificate.

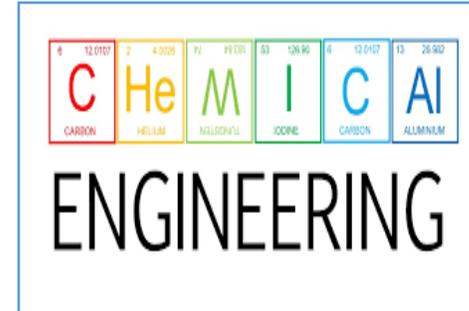
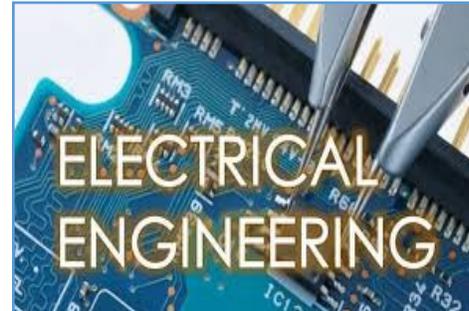
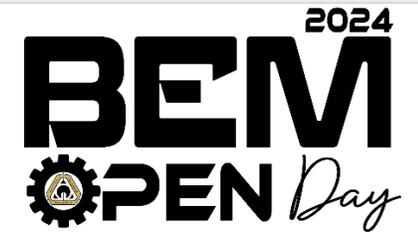


Copy of; degree scroll full official transcript; AML CatB (type rated); CoC* Class 2 Marine Engr & IC/MyKad (**duly certified by an active PE**)

*Confirmation letter from Jab. Laut Malaysia

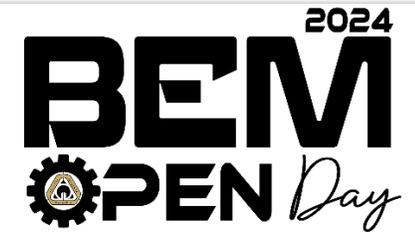


Engineering Technology Branch/Discip





Inspector of Works Registration



Submission

Approval Stage

Output

MyBEM Online Reg. System
www.engineer.org.my

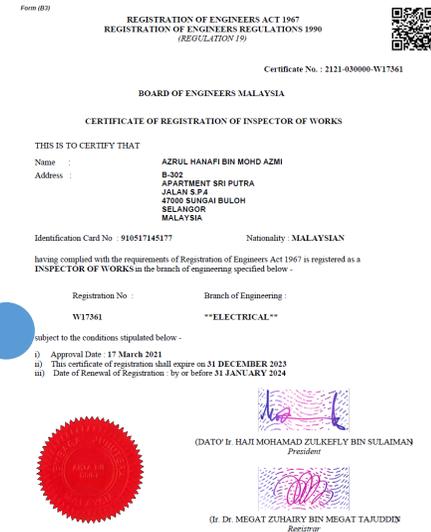


Processing fee of RM 50.00

BEM
Application
Committee

Approval within 1 – 4 months

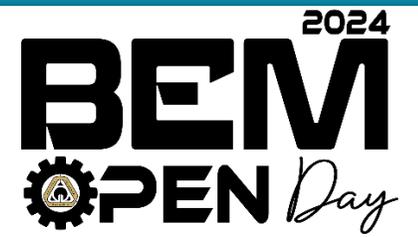
Download, print & save e-certificate.



Copy of; diploma scroll full official transcript; AML Cat B (without type rated); CoC* Class 4 Marine Engr & IC/MyKad **(duly certified by an active PE)**

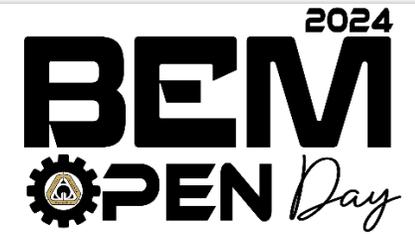
*Confirmation letter from Jab. Laut Malaysia

Inspector of Works Branch/Discipline





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

Approval within 1 – 3 months

BEM
Application
Committee

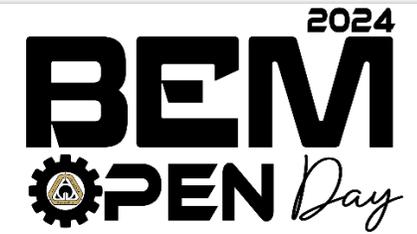
Output

Download, print & save e-certificate.





Professional Engineer with Practising Certificate Registration



Submission

MyBEM Online Reg. System
www.engineer.org.my



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

Copy of PCE result

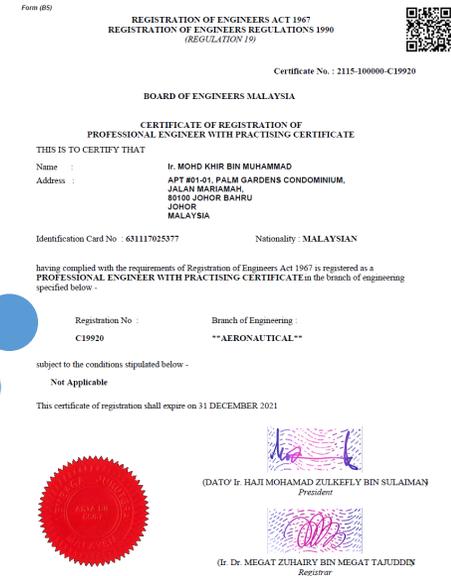
Approval Stage

Approval within 1 – 3 months

BEM
Application
Committee

Output

**Download, print &
save e-certificate.**



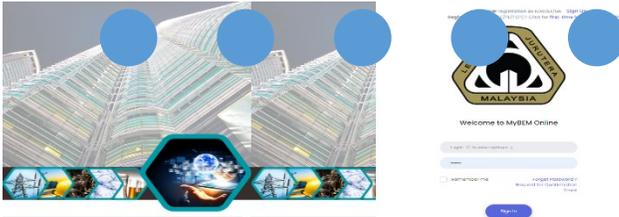


Accredited Checker Registration



Submission

MyBEM Online Reg. System
www.engineer.org.my



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

CV on the qualifications & practical experience

Approval Stage

Approval within 1 – 3 months

BEM
Application
Committee

Output

**Download, print &
save e-certificate.**

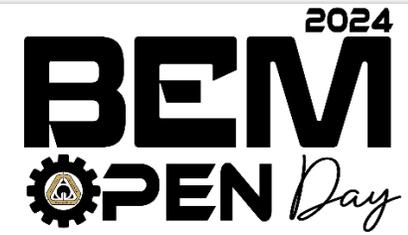


Accredited Checker Branch/Discipline



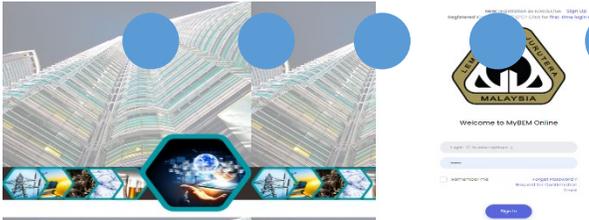


Engineering Consultancy Practice Registration



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 Stage

Approval within 1 – 3 months

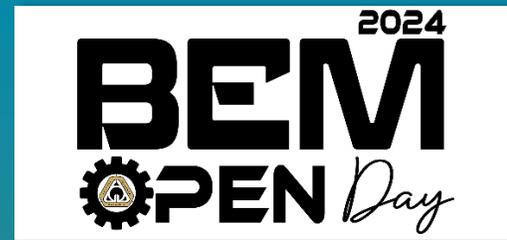
BEM
Application
Committee

Output

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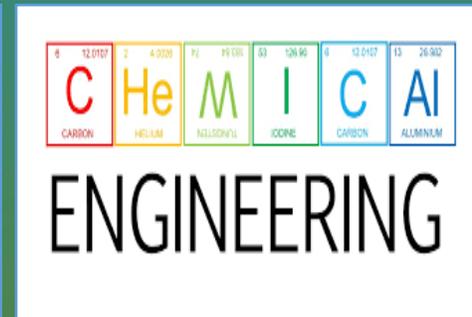
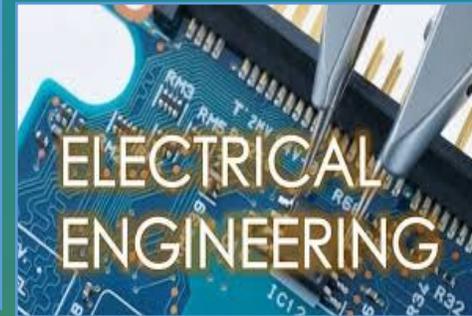


Engineering Consultancy Practice Branch/Discipline



Single Discipline

- Sole Proprietor
- Partnership
- Body Corporate



Multi Disciplinary

- Body Corporate



Outline of Presentation



Introduction

BEM's Roles and Functions

Registration

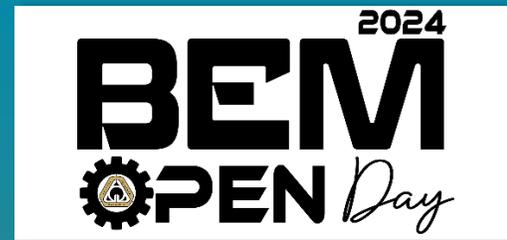
Qualification

Licensing

Regulating



Penalties - Offences by Registered Person



Subsection 15(1A)

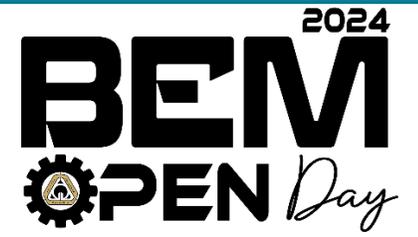
(1A) The orders referred to in subsection 15(1) are –

- (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)



Penalties – Offences by Non-Registered Person

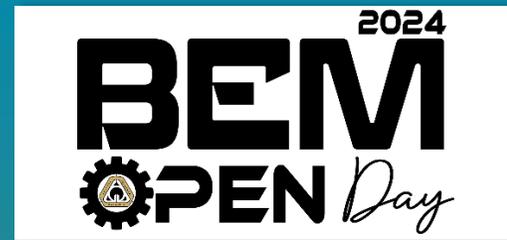


Section 24. Any person, sole proprietorship or body corporate who -

- (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) Willfully 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 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.

Penalties - Offences by Non-Registered Person



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.

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 <i>Appeal Board (29.7.2005) upheld Board's Decision</i>
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 <i>Appeal Board (9.12.2009) upheld DC's Decision</i>
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 <i>Appeal Board (30.1.2012) upheld Board's Decision</i>

Thank You



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Question & Answer

