



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

Presented by:

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Date: 18<sup>th</sup> May 2021  
Venue: ZOOM

18/5/2021

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# Professional Regulatory Authority



Medical Act 1971



®

MALAYSIAN INSTITUTE  
OF ACCOUNTANTS  
ACCOUNTANTS: MANAGERS OF VALUE

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 public safety, health and welfare, can only be carried out by licensed 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; qualifications for licensing; and code of professional conduct for registered engineers;

# 14 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/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

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 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



Formed on 23<sup>rd</sup> August 1972

# Board Formation



MINISTRY OF WORKS

President (PE/PEPC)  
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 REA

The Board



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



Prof. Ir. Dr. Norlida  
binti Buniyamin



YBhg. Dato' Ir. Ahmad  
Redza bin Ghulam Rasool



YBhg. Datu Ir. Zuraimi  
bin Hj Sabki



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



Dato' Prof. Ir. Dr. Mohd  
Hamdi bin Abd Shukor



Ir. Zailee bin Dollah



Ir. Ali Ahmad bin  
Haji Hamid



YBhg. Datuk Ir. Mohd  
Adnan bin Mohd Nor



Ir. K. Sundraraj a/l  
A Krishnasamy



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



Ir. Megat Johari bin  
Megat Mohd Noor



Ir. Ong Ching Loon



Ir. Mohd Aman  
bin Hj Idris



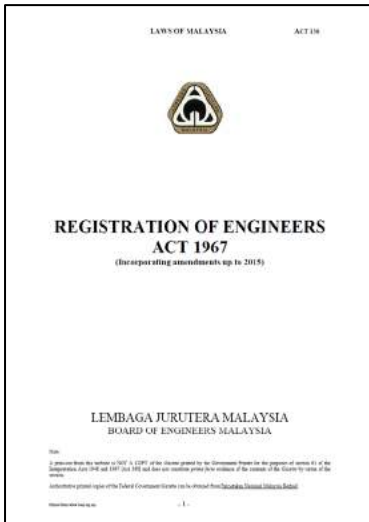
Ir. Mohd Khir bin  
Muhammad



Ar. Azman bin Md Hashim



Sr. Rogayah binti Yunus



P.U. (A) 108



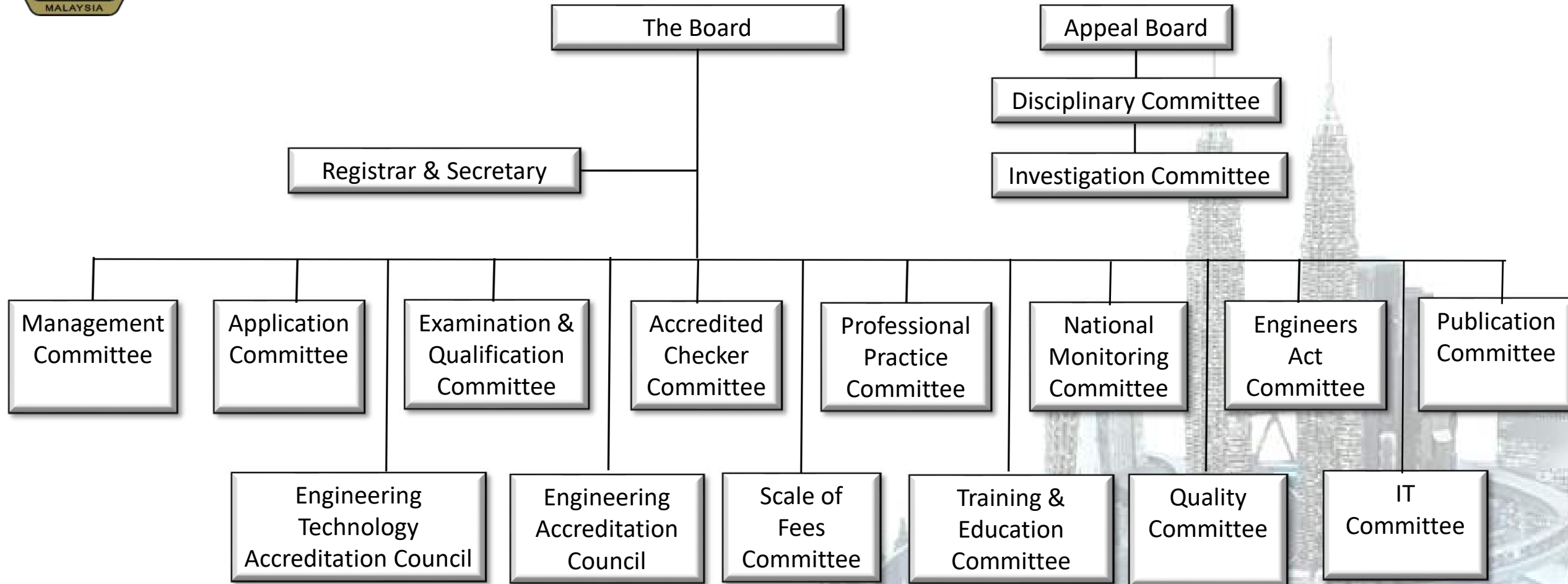
REGISTRATION OF ENGINEERS  
REGULATIONS 1990  
(incorporating amendments up to 2015)

LEMBAGA JURUTERA MALAYSIA  
BOARD OF ENGINEERS MALAYSIA

18/5/2021

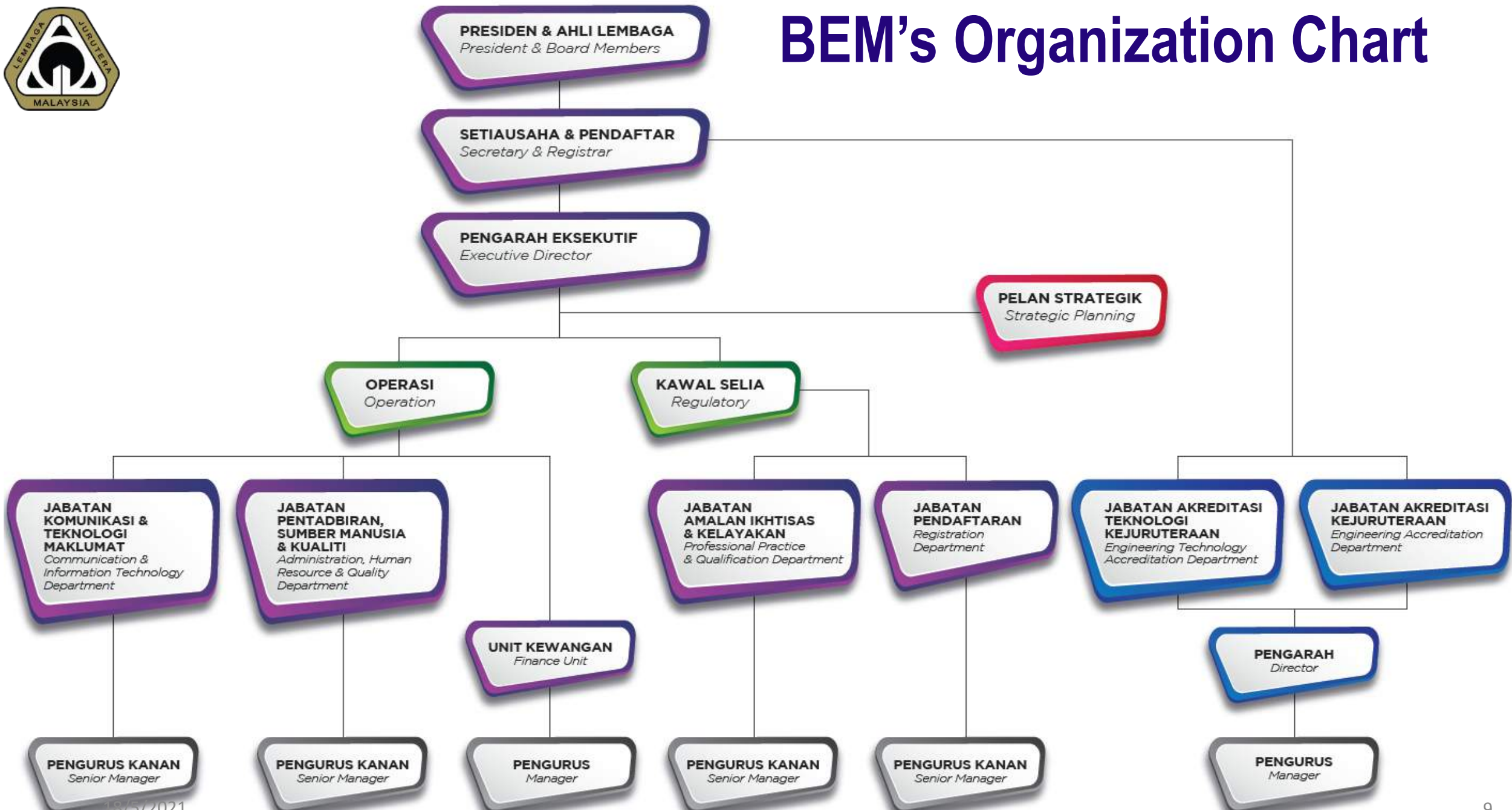


# Committee Organization Chart





# BEM's Organization Chart



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# 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.



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# 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.





# Publication Activities



**Tweets**    Tweets & replies    Media    Likes

 **Board of Engineers Malaysia** @BEM\_Engineers · Sep 21  
BEM Webinar 2020 - An Overview of New MyBEM Online Registration System (MyBEM) for Registered Persons.

Registration open to the first 500 participants only. (First Come First Serve) Register NOW!! 2 CPD Hours upon webinar completion.

Registration at [forms.office.com/Pages/Response...](https://forms.office.com/Pages/Response...)



**BEM Webinar 2020** | Awareness on new BEM Information Management Systems

22<sup>nd</sup> SEPT 2020  
10.30<sup>AM</sup> - 12.30<sup>PM</sup>

An Overview of **New MyBEM Online Registration System (MyBEM)** for Registered Persons

Speaker: Ir. Dr. Megat Zuhairy bin Megat Tajuddin  
Who should attend: AC, PEPC, PE, GE, EngTech, & IOW

4    11



18/5/2021



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

## SELAMAT MENYAMBUT HARI MALAYSIA

MALAYSIA PRIHATIN

 **Board of Engineers Malaysia** 6 d · 🌐

Ahli Lembaga dan Ahli Jawatankuasa serta seluruh warga kerja Lembaga Jurutera Malaysia mengucapkan Selamat Menyambut Hari Malaysia ke-57 kepada semua.

#selamatharimalaysia2020  
#selamatharimalaysia #malaysiaprihatin  
#Malaysia2020 #Malaysia #perangicovid19  
#amalkanSOP #KitaJagaKita

105    4 shares

Like    Comment    Share

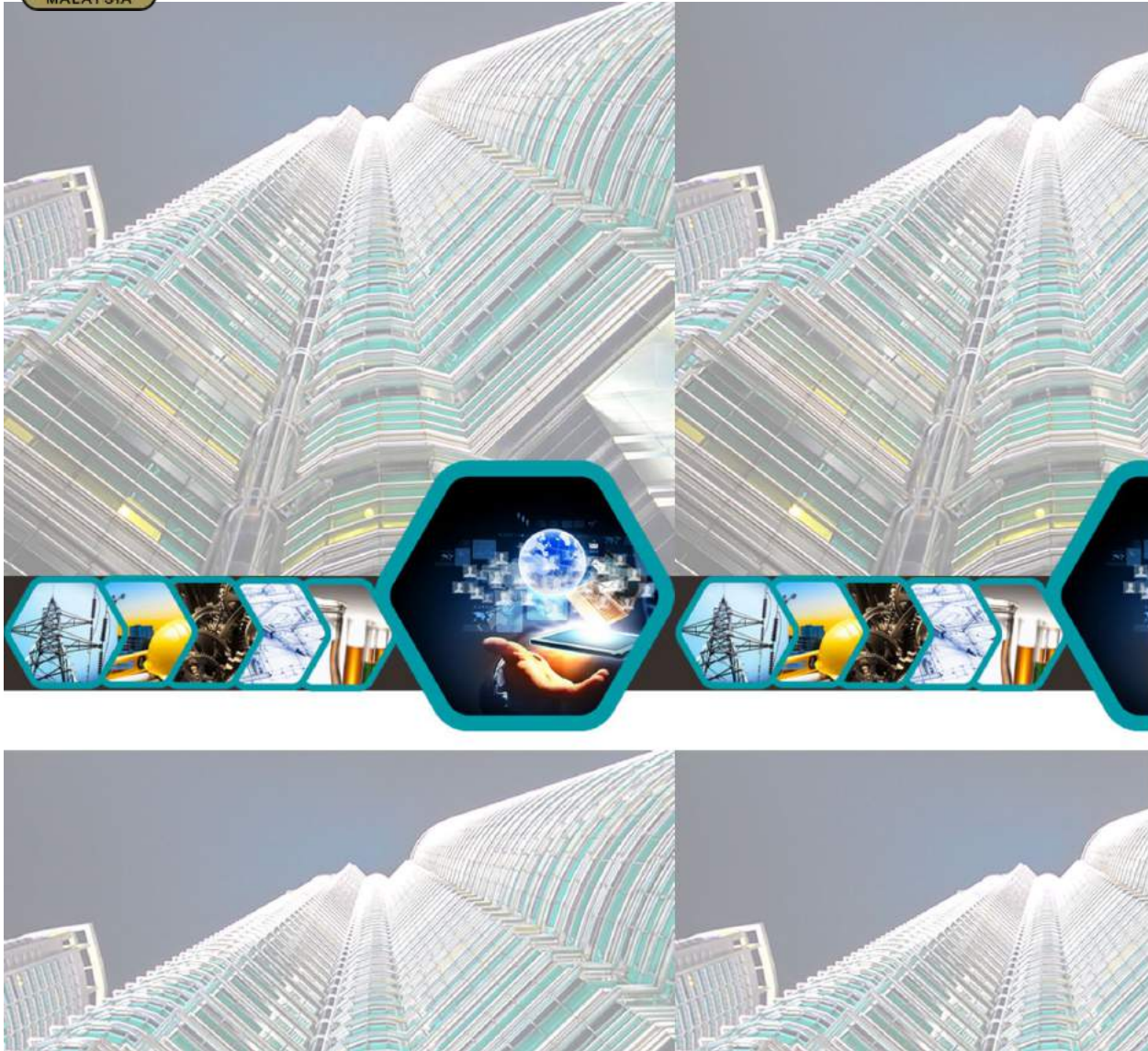
Write a comment...







# BEM Online Portal



NEW registration as IOW/ET/GE [Sign Up](#)  
Registered IOW/ET/GE/PE/PEPC? [Click for first-time login user guideline.](#)



Welcome to MyBEM Online












Login: IC Number (without -)

Password: Password

Remember me

[Forget Password ?](#)  
[Request for Confirmation](#)  
[Email](#)

Sign In

|  |   |   |  |   |
|--|---|---|--|---|
| <br>MyBEM | <br>Magazine | <br>Customer Service | <br>Finance | <br>HR & Payroll |
| <br>PPC   | <br>CCC      | <br>Event            | <br>Letter  | <br>Meeting      |
|  |   |   |  | <br>Exam         |



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# Activities



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# Conceptual





# 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.



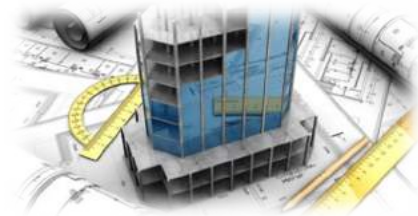
## Registered Person

- 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

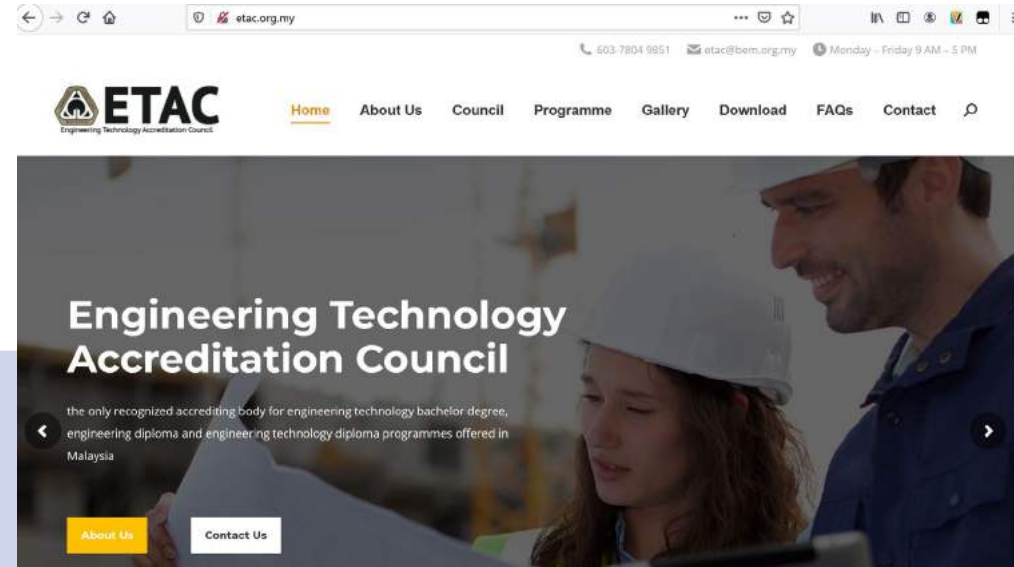
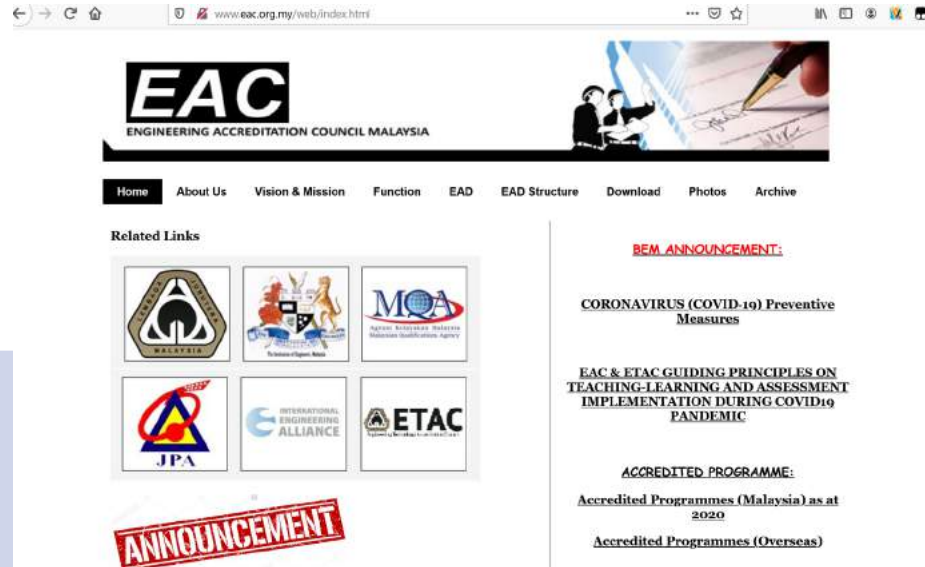
# Registration Type



| Registered Person                | 2021 (Mac)     |
|----------------------------------|----------------|
| Graduate Engineer                | 143,958        |
| Professional Engineer            | 4,823          |
| Inspector of Works               | 6,845          |
| Engineering Technologist         | 7,130          |
| PE with Practising Certificate   | 9,058          |
| Accredited Checker               | 28             |
| <b>REGISTERED PERSON (TOTAL)</b> | <b>171,842</b> |
| Business Entities                | 2021 (Mac)     |
| Sole Proprietorship              | 1,234          |
| Partnership                      | 221            |
| Body Corporate                   | 1,145          |
| Multidisciplinary                | 47             |
| <b>ECPs (TOTAL)</b>              | <b>2,647</b>   |

# 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

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# Accredited Engineering Degree – 329 programs at 48 IHLs



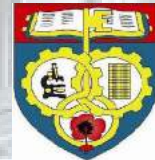
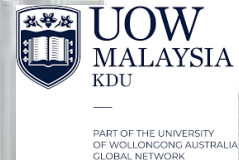
MAHSA UNIVERSITY



UCTS



UTeM



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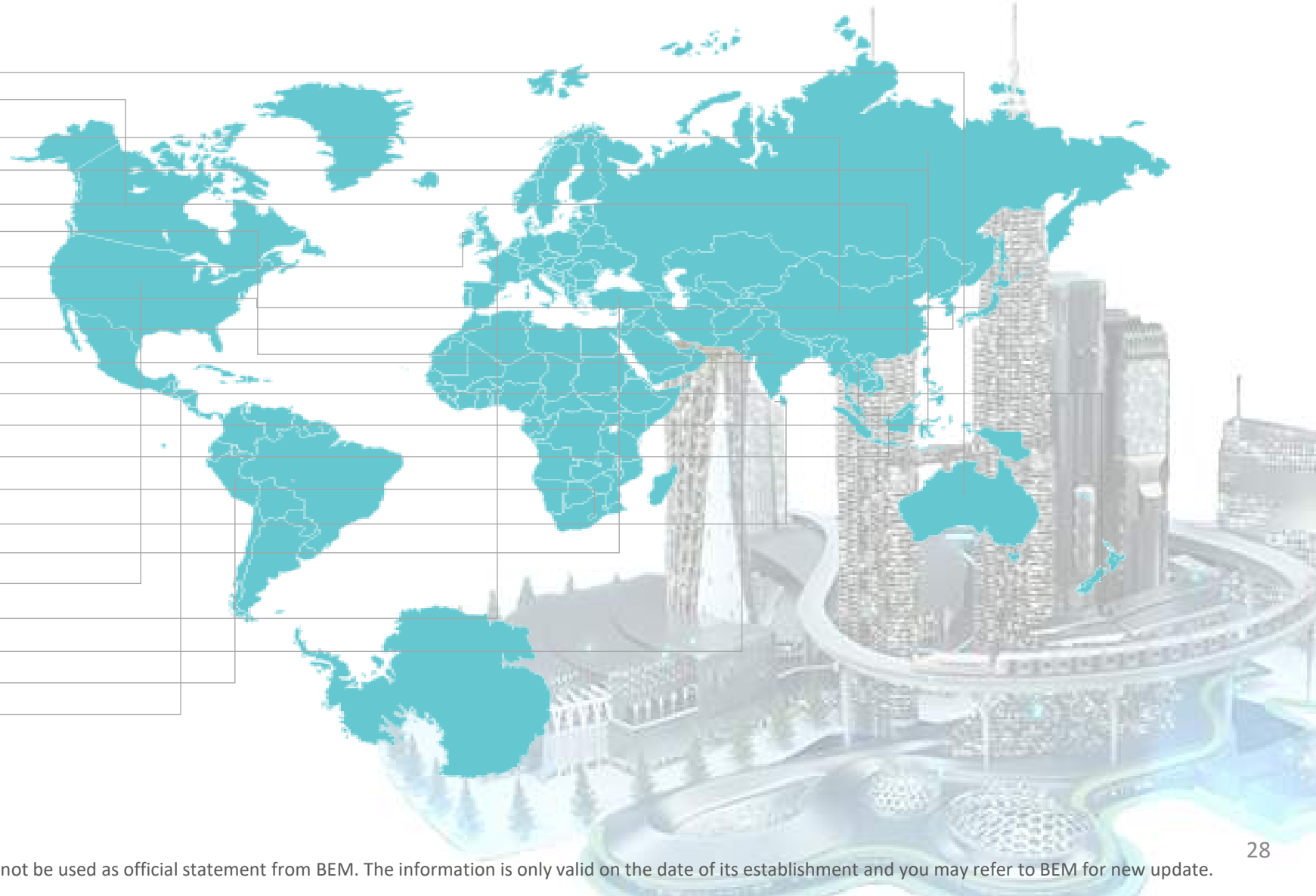
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# Washington Accord Signatories

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







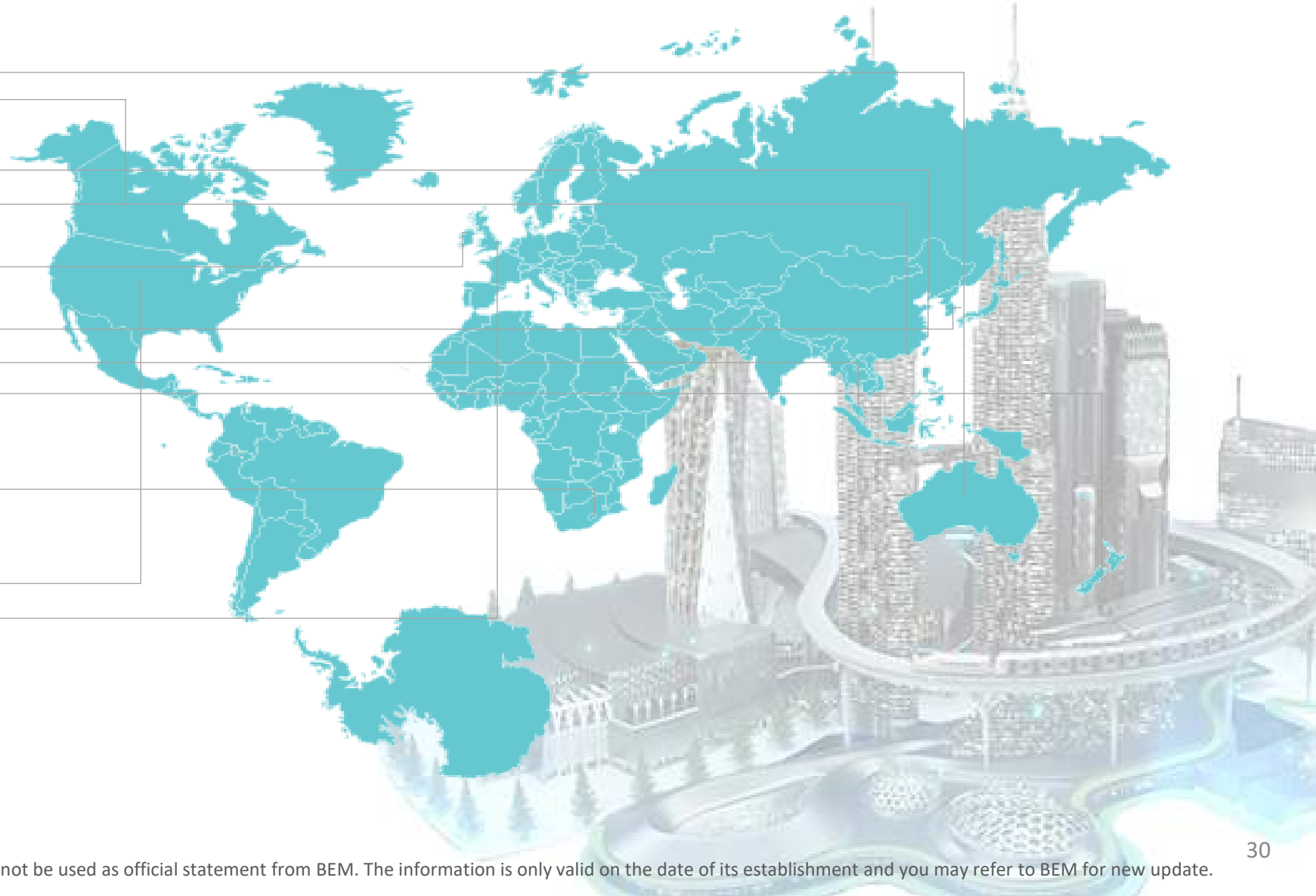
# Accredited Engineering Technology Degree – 44 programs at 5 IHLs





# 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



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# Accredited Engineering Diploma – 142 programs at 34 IHLs



BINTULU



YOUR FUTURE BUILT TODAY



SULTAN AZLAN SHAH



POLITEKNIK MUKAH



POLITEKNIK MELAKA



POLITEKNIK MERLIMAU



POLITEKNIK BANTING



POLIMAS



MULTIMEDIA UNIVERSITY



POLITEKNIK SULTAN SALAHUDDIN ABDUL AZIZ SHAH



INTI International College Penang LAUREATE INTERNATIONAL UNIVERSITIES



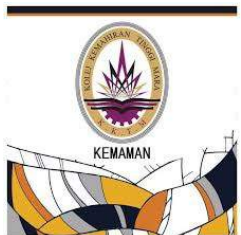
POLITEKNIK SULTAN AZLAN SHAH



POLITEKNIK KUCHING SARAWAK



POLITEKNIK IBRAHIM SULTAN



KEMAMAN



POLITEKNIK Muadzam Shah



POLITEKNIK MALAYSIA KUALA TERENGGANU



POLITEKNIK SULTAN MIZAN ZAINAL ABIDIN



POLITEKNIK SULTAN HAJI AHMAD SHAH



YAYASAN PELAJARAN JOHOR



POLITEKNIK UNGKU OMAR KEMAMATAN DAN KEAMANAN MELALUI TEKNOLOGI



POLITEKNIK SYED SIRAJUDDIN



LENGGONG



PSP

POLITEKNIK SEBERANG PERAI



POLITEKNIK KOTA KINABALU

18/5/2021

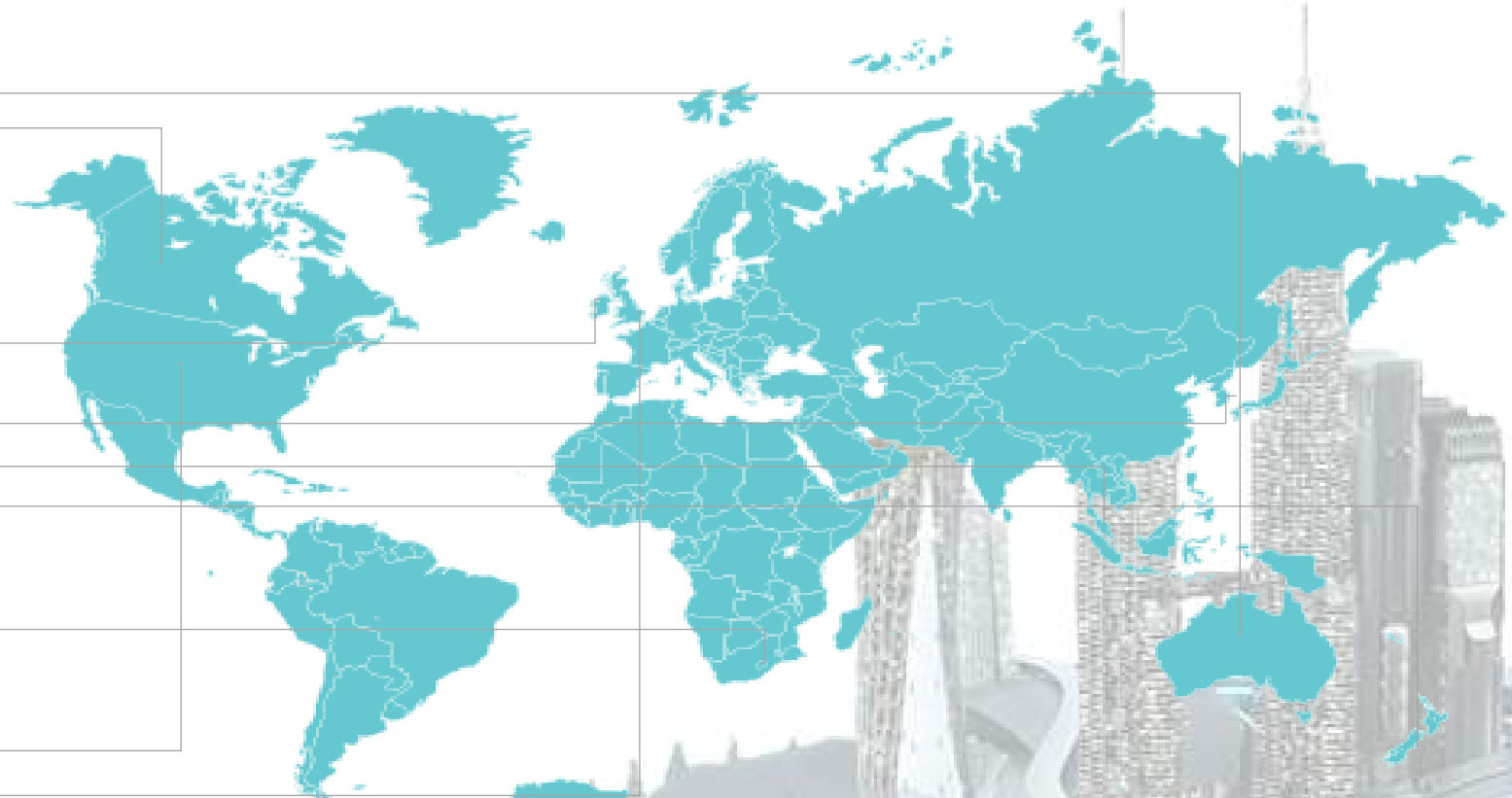
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# Dublin Accord Signatories

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

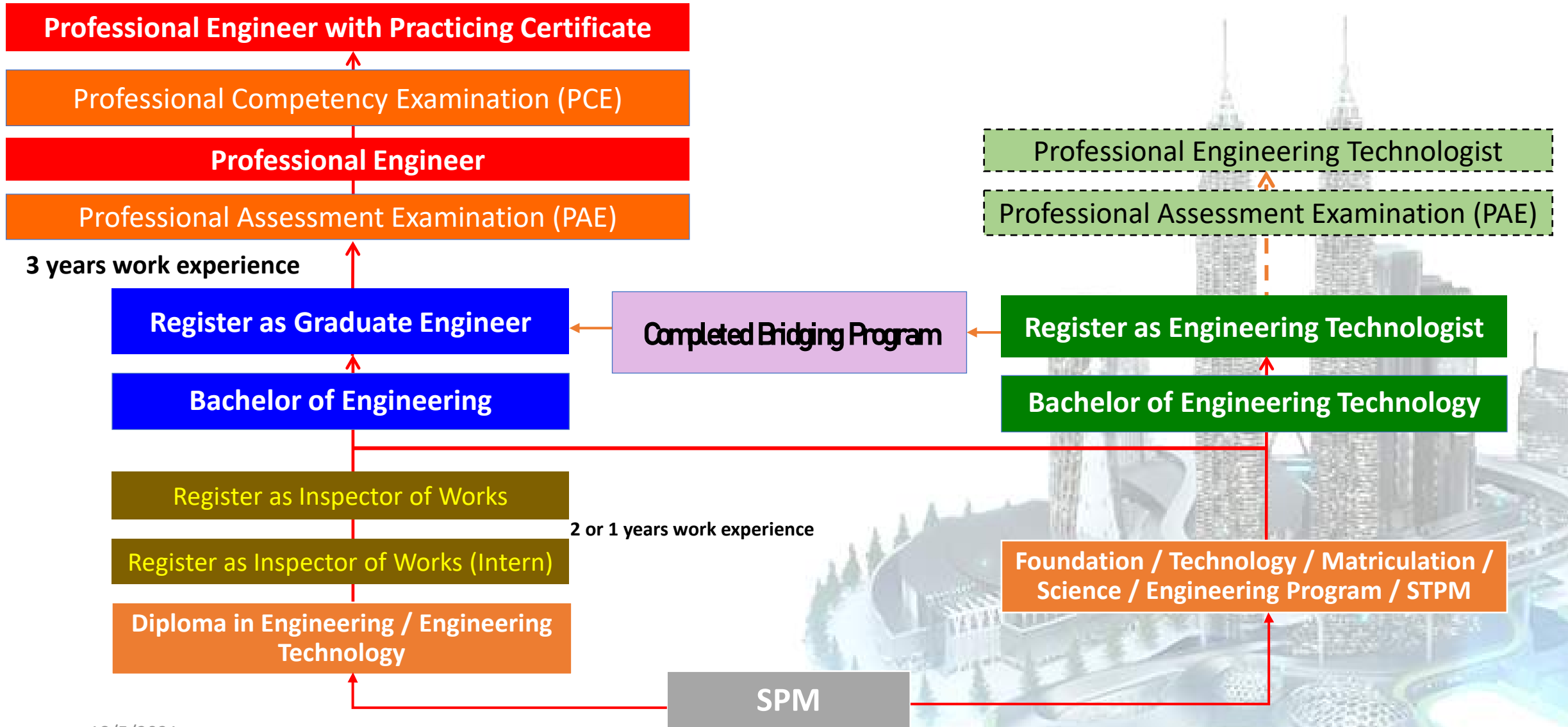


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# PROFESSIONAL PATHWAY



# 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

## Approval Stage

## Output

MyBEM Online Reg. System  
[www.engineer.org.my](http://www.engineer.org.my)



**Approval within 1 – 4 months**

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

**BEM  
Application  
Committee**

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)

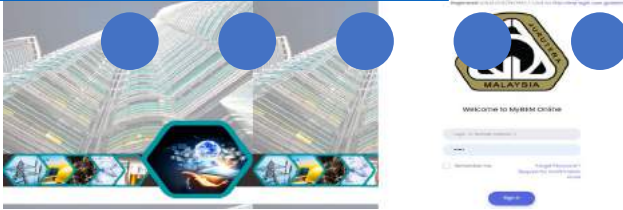




# Engineer Technologist Registration

## Submission

MyBEM Online Reg. System  
[www.engineer.org.my](http://www.engineer.org.my)



Processing fee of RM 50.00

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

## Approval Stage

**Approval within 1 – 4 months**

BEM  
Application  
Committee

## Output

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



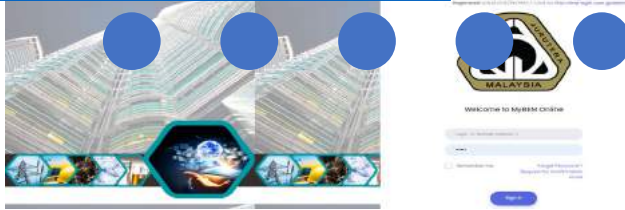




# Inspector of Works Registration

## Submission

MyBEM Online Reg. System  
[www.engineer.org.my](http://www.engineer.org.my)



Processing fee of RM 50.00

BEM  
Application  
Committee

## Approval Stage

**Approval within 1 – 4 months**

## Output

**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

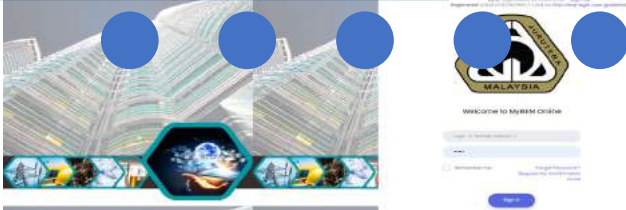
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# Professional Engineer Registration

## Submission

MyBEM Online Reg. System  
[www.engineer.org.my](http://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](http://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.**

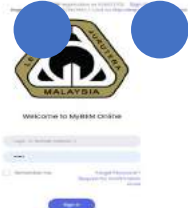




# Accredited Checker Registration

## Submission

MyBEM Online Reg. System  
[www.engineer.org.my](http://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.**

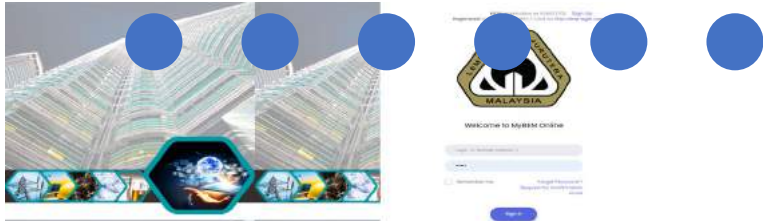




# Engineering Consultancy Practice Registration

## Submission

MyBEM Online Reg. System  
[www.engineer.org.my](http://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**



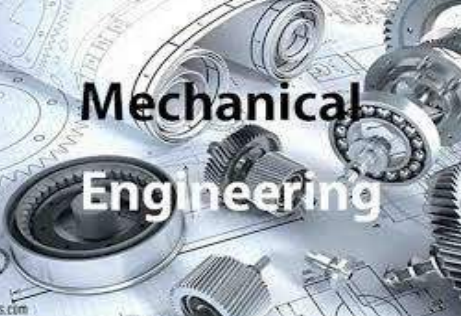
## Output

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





# Engineering Branch/Discipline

|   |  |   |  |
|---|--|---|--|
|  <p><b>CIVIL<br/>ENGINEERING</b></p>   |  <p><b>Mechanical<br/>Engineering</b></p>  |  <p><b>ELECTRICAL<br/>ENGINEERING</b></p>      |  <p><b>ENGINEERING</b></p>  |
| <p><b>Civil</b></p> <ul style="list-style-type: none"><li>• Building</li><li>• Construction</li><li>• Environment</li><li>• Geotechnical</li><li>• Mining</li><li>• Structural</li><li>• Transportation</li></ul> | <p><b>Mechanical</b></p> <ul style="list-style-type: none"><li>• Aerospace</li><li>• Agricultural</li><li>• Automotive</li><li>• Building Services</li><li>• Manufacturing</li><li>• Marine</li><li>• Material</li><li>• Mechatronic</li><li>• Metallurgy</li><li>• Mining</li><li>• Naval Architectural</li><li>• Nuclear</li></ul> | <p><b>Electrical</b></p> <ul style="list-style-type: none"><li>• Computer</li><li>• Electronics</li><li>• Communication</li></ul> | <p><b>Chemical</b></p> <ul style="list-style-type: none"><li>• Environmental</li><li>• Nuclear</li><li>• Petroleum</li><li>• Process (Polymer, Pharmaceutical, Food)</li></ul> |



# 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

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

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

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

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

**REGISTRATION OF ENGINEERS ACT  
1967 (Act 138)**

**REGISTRATION OF ENGINEERS  
REGULATION 1990**

**BEM'S CIRCULARS**

**BEM'S GUIDELINES**

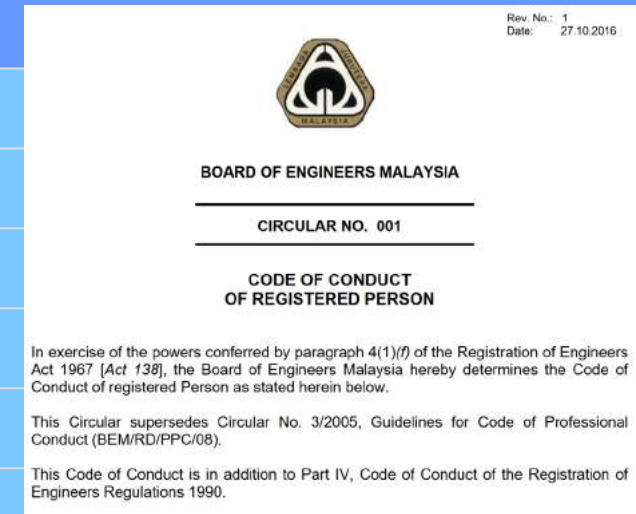
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# BEM Circulars

| CIRCULAR NO.        | TITLE   |   |
|---------------------|---|---|
| Circular No. 001    | Code of Conduct of Registered Person  |   |
| Circular No. 002    | Continuing Professional Development (CPD)   |   |
| Circular No. 003    | Submission of Sewerage and Sanitary Plumbing Works  |   |
| Circular No. 004    | Supervision of Construction Works   |   |
| Circular No. 005    | Advertising by Registered Engineers   |   |
| Circular No. 006    | Engineer's Responsibility for Subsurface Investigation  |   |
| 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 taking over the Work of Another Registered Engineer or an ECP |   |
| 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   |   |



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# BEM Guideline

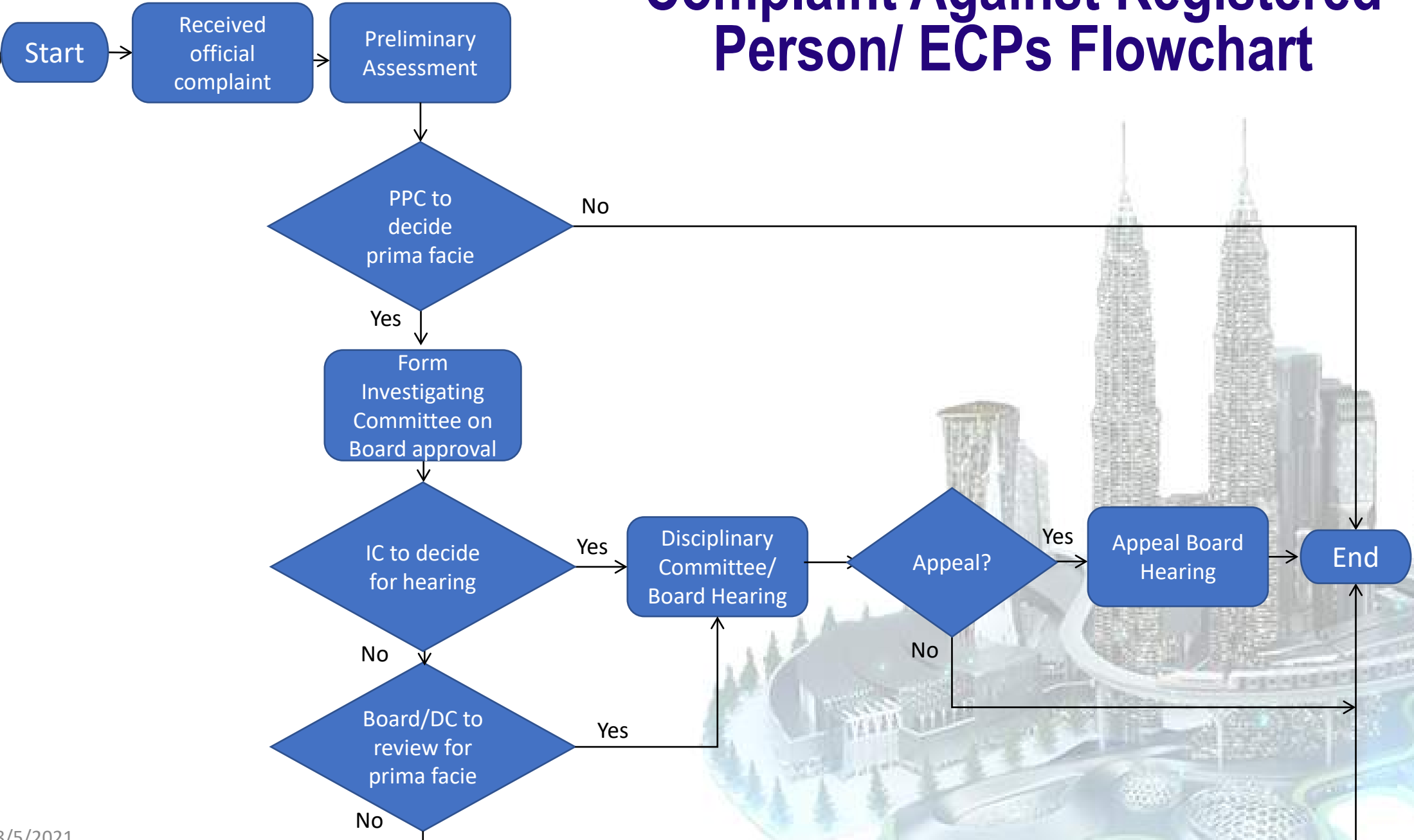
| <b>GUIDELINES NO.</b>     | <b>TITLE</b>   |
|---------------------------|--|
| <b>Guidelines No. 001</b> | <b>The Role and Responsibility of Professional Engineers for Temporary Works During Construction Stage</b>                       |
| <b>Guidelines No. 002</b> | <b>Industrialised Building System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

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# Complaint Against Registered Person/ ECPs Flowchart





# Issuance of Certificate of Completion and Compliance (CCC)

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

## Appendix B

Airport runway & apron  
Air-conditioning & mechanical ventilation system

**B**  
Bulk handling complex  
Bridge

**C**  
Cable car system  
Car parking mechanical system  
Causeway  
Cement plant  
Chimney  
Crane gantry  
Crushing plant  
Coffers dam  
Coillery

**D**  
Dam  
Distillation & desalination plant  
Dock  
Drainage scheme  
Dredging & reclamation work

**E**  
Earthwork  
Electrical distribution system & stage lighting  
Electrical services installation  
Electrical switchroom  
Embankment  
Environmental pollution control plant

**F**  
Flood bund  
Foundation  
Fire protection service

**G**  
Gaswork  
Gravity retaining wall & gabion  
Grinding plant

**H**  
Harbour

**I**

Infrastructural service  
Incinerator

**J**  
Jetty

**L**  
Liquid waste disposal plant

**M**  
Mass rapid transit system  
Marine structure & facility  
Mechanical service  
Mine  
Mining

**O**  
Oil refinery plant  
Oil & gas tank

**P**  
Parade ground  
Piling  
Pipe line  
Plumbing service  
Port

Proprietary standard beam/truss  
Public address system  
Pumping ground  
Pumping station

**Q**  
Quarry  
Quay

**R**  
Reclamation  
Refinery  
Refrigeration installation & cold store  
Retaining wall (major)  
Roadside furniture & traffic signal  
Roadwork, (public)  
Reservoir

**S**

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

**T**

Taxiway  
Transmission tower  
Tunnel  
T.V. transmission tower

**U**

Underground railway

**V**

Ventilation system

**W**

Water distillation plant  
Water distribution line (hot/cold water service)  
Waterwork  
Water & waste water & environmental pollution control plant  
Wharf

## Appendix C

**A**  
Abattoir  
Aerated water factory  
Aircraft assembly plant  
Aircraft maintenance workshop & hangar  
Aircraft manufacturing plant

**B**  
Boat house (shed)  
Boiler house  
Brewery  
Brickwork (factory)  
Bus depot & workshop

**C**  
Car parking – multi-storey (standalone)  
Car parking layout (open)  
Chemical plant  
Chimney (domestic)  
Compressor house

**E**  
Electrical substation  
Engineering laboratory

**F**  
Fencing & gate  
Flatted factory  
Footing

**G**  
Glue factory  
Glass work (factory)  
Godown  
Grandstand (uncovered)

**H**  
Helicopter port

**I**

Ice factory  
Integrated industrial development  
Integrated petrol station development \*\*

**J**

Jute mill (building)

**M**  
Manufacturing, assembling, processing, repair plant & associated building & facility  
Marine  
Mill  
Minor earthwork  
Motor vehicles service station

**N**  
Nuclear power station

**P**  
Paper mill/factory  
Perimeter drain work of building within private boundary  
Pharmaceutical plant  
Plywood factory  
Prefabricated structure  
Power station (thermal hydro & nuclear)  
Printing work  
Private roadwork  
Pumping station (building)

**R**  
Rubber factory  
Rubber processing mill and smoke house  
Refuse chute system

**S**

Sanitary & plumbing installation to domestic house, shophouse & school  
Satellite tracking station  
Septic tank construction & soak away pit  
Shipyards  
Silo  
Single storey factory (with or without mezzanine floor)  
Swimming pool & ancillary work  
Steel mill  
Space research centre  
Standard patented structure  
Store building

**T**

Tannery  
Timber work (sawmill)  
Textile plant  
Timber structure

**U**

Underground railway station  
Utilities building

**V**

Vegetables oil mill & refinery factory

**W**

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  
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 penyediaan bangunan/bangunan-bangunan itu dan sepanjang pengetahuan dan kepercayaan saya 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)

1. Butir-butir orang utama yang mengemukakan

Nama :

Alamat :

No. Pendaftaran LJM:

2. Salinan kepada :

(a) Pihak Berkuasa Tempatan :

(Nama Pihak Berkuasa Tempatan)

(b) Lembaga Jurutera Malaysia (LJM)

\* Pemas, jika ia adalah untuk pembangunan selain rumah bersewakan yang dibina secara rasmi, pemunya pula ia adalah untuk rasmi bersewakan yang dibina secara rasmi

SALINAN ASAL

18/5/2021





# Type (1) Offence: Offender not registered with BEM



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# 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 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 - 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  
or  
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 24<sup>th</sup> July 1997 shall apply.

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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.
- 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.
  - 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

IOW

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





# International Affiliations



National Monitoring Committee (NMC)



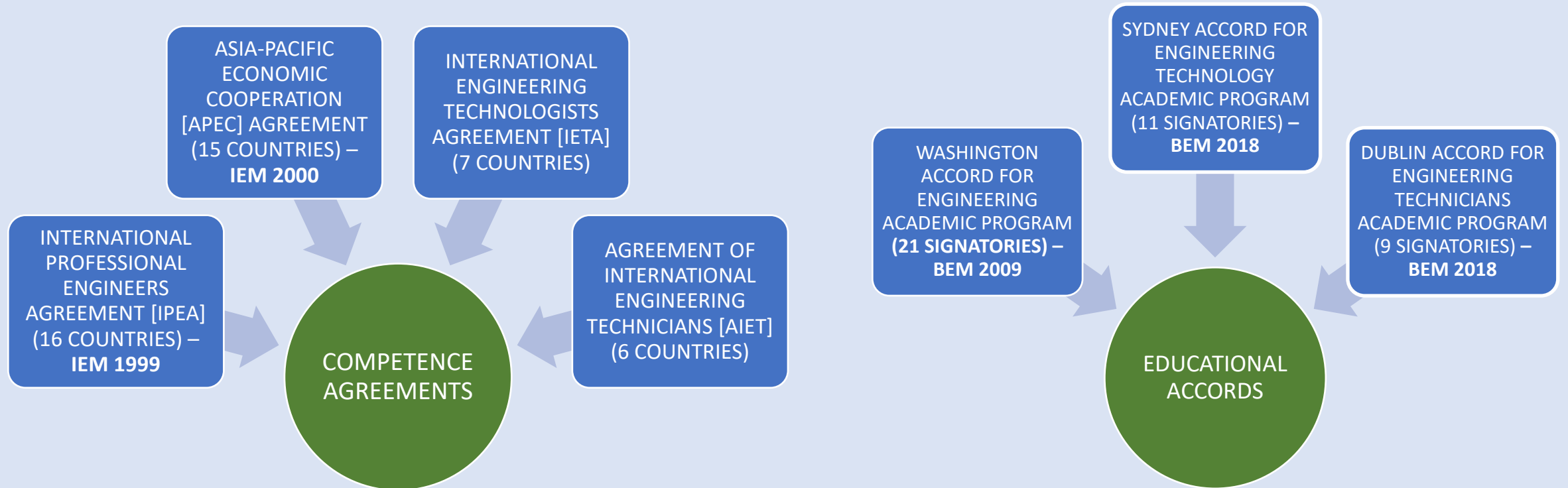
International Engineering Alliance (IEA)



ASEAN Chartered Professional Engineer Coordinating Committee (ACPECC)



# International Engineering Alliance





# ASEAN PROFESSIONAL MOBILITY



## ASEAN Chartered Professional Engineer (ACPE)

| Brunei | Cambodia | Indonesia | Laos | Malaysia   | Myanmar | Philippines | Singapore | Thailand | Vietnam |
|--------|----------|-----------|------|------------|---------|-------------|-----------|----------|---------|
| 32     | 84       | 1175      | 17   | <b>921</b> | 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    |
| RFPE | BN           | -                                       |          |           |          |          |          |           |          |          |          | 0        |
|      | KH           |   | -        |           |          |          |          |           |          |          |          | 0        |
|      | ID           |   |          | -         |          |          |          |           |          |          |          | 0        |
|      | LA           |   |          |           | -        |          |          |           |          |          |          | 0        |
|      | MY           |   | 6        |           |          | -        | 4        | 0         | 0        |          |          | 10       |
|      | MM           |   |          |           |          | 0        | -        |           | 1        | 0        |          | 1        |
|      | PH           |   |          | 1         |          | 2        |          | -         |          |          |          | 3        |
|      | SG           |   | 1        |           |          | 4        | 2        |           | -        |          |          | 7        |
|      | TH           |   | 6        |           |          | 1        | 4        |           |          | -        |          | 11       |
|      | VN           |   |          |           |          |          |          |           |          |          | -        | 0        |
|      | <b>Total</b> |   | <b>0</b> | <b>13</b> | <b>1</b> | <b>0</b> | <b>7</b> | <b>10</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> |

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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**.



# REFERENCES

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



# THANK YOU



*“Committed To Engineering Excellence”*

**BOARD OF ENGINEERS MALAYSIA**

Tingkat 11 & 17, Blok F Ibu Pejabat JKR

Jalan Sultan Salahuddin, 50580 Kuala Lumpur

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