

Application for Registration as a Graduate Engineer

INTRODUCTION

It is mandatory for university graduate to register as Graduate Engineer if he/she wants to take up employment as a Graduate Engineer. This is in accordance with section 7(2)(a) which specified that “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.

A Graduate Engineer is a person registered under subsection 10(1) of the Registration of Engineers (Amendment) Act 2015.

According to Section 7 (1B), a Graduate Engineer will be entitled to describe himself or hold himself out under any name, style or title using the abbreviation “Grad.Eng.” after his name or in any way associate with his name.

REQUIREMENTS

Subsection 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:

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.

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).

Engineering Technology Degree

Graduate with Degree in Engineering Technology is eligible to register as an Engineering Technologist. [Click here for the Application Form A2.](#)

UNRECOGNISED PROGRAMME

Malaysia is a signatory of Washington Accord, an accord which recognises the substantial equivalence of such programmes in satisfying the academic requirements for the practice of engineering at the professional level. It is an exclusive agreement between engineering education accrediting bodies at the international level. All engineering degree must be accredited by professional bodies who are signatories of Washington Accord. In Malaysia, Engineering Accreditation Council (EAC) which comprises of BEM, MQA, JPA and IEM is the body accrediting engineering programme offered by local university.

List of professional body who are signatory of Washington Accord

BEM provides pathway for unrecognised engineering degree. Holders of unrecognised engineering degrees may select one of the following options:

1. Master programme (taught course)

Complete a Master's programme (course work) in the related engineering discipline. Subjects to be taken in the Master programme must enhance the subjects taken in the BEng (Hons).

Graduate is required to submit the following documents for BEM's assessment prior taking up the Master programme. BEM will advise the graduate the subjects to be taken and its credit hours.

- a. Degree scroll
- b. Full official transcripts
- c. Details on the Master of Engineering such as course contents/subjects, duration etc.

2. Top-up Course (Subjects)

Top-up a few lacking subjects in the university where applicant is graduated from or in any university offering recognised degree by the Engineering Accreditation Council Malaysia.

Graduate is required to submit the **Degree scroll** and **full official transcripts** to BEM for assessment prior taking up the top-up programme. BEM will advise the graduate the subjects to be taken and its credit hours.

BRANCHES OF ENGINEERING

Applicant will be placed in the branch based on his basic degree and official transcript.

REQUIREMENT TO BE REGISTERED IN ELECTRICAL ENGINEERING

Electrical engineering may or may not include electronic engineering. Electrical engineering is considered to deal with the problems associated with large-scale electrical systems such as power transmission and motor control, whereas electronic engineering deals with the study of small-scale electronic systems including computers and integrated circuits. Alternatively, electrical engineers are usually concerned with using electricity to transmit energy, while electronic engineers are concerned with using electricity to transmit information.

In the context of BEM's classification, Electrical Engineering is Power Engineering, (also called Power Systems engineering), which is a branch of engineering that deals with the generation, transmission and distribution of electric power as well as the electrical devices connected to such systems including generators, motors and transformers. Although much of the field is concerned with the problems of three-phase AC power - the standard for large-scale power transmission and distribution across the modern world - a significant fraction of the field is concerned with the conversion between AC and DC power as well as the development of specialised power systems such as those used in aircraft or for electric railway networks.

Based on the above, a graduate who wants to be registered in the electrical engineering branch must have undergone the following core electrical subjects in his course:

Set	Subject	Credit Hour	Recommendation
1	Machines & Drives	3	To take and pass: (i) Machines & Drives (3) OR (ii) Electrical Machines (2) and Drives (2) OR (iii) Electrical Machines (2) and Power Electronics (2)
	Electrical Machines	2	
	Drives or Power Electronics	2	
2	Fields (Electromagnetics) & Circuits	3	To take and pass: (i) Fields (Electromagnetics) and Circuits OR (ii) Fields (Electromagnetic) (2) and Circuits (2)
	Fields (Electromagnetic)	2	
	Circuits	2	
3	Electrical Power System	2	To take and pass: (i) Electrical Power System (Power Engineering) OR (ii) High Voltage
	High Voltage	2	

PROCEDURE FOR REGISTRATION

Requirements	Malaysian	Non-Malaysian
1. Application Method	Application can be made through MyBEM Online Registration System or manually using Form A1 .	Application shall be made manually using Form A1
2. <u>Supporting Documents</u>	Applicant must submit the following supporting documents and all the documents must be certified by a Professional Engineer recognised by BEM.	
	<ul style="list-style-type: none"> Degree scroll and official transcripts Diploma scroll and official transcripts (if any) Identification Card 	<ul style="list-style-type: none"> Degree scroll and official transcripts Diploma scroll and official transcripts (if any) Identification Card Permanent Resident and/or Passport
3. Payment	Accompanied with a non-refundable processing fee for the amount of RM50.00 payable to the Board of Engineers Malaysia.	Accompanied with a non-refundable processing fee for the amount of RM50.00 payable to the Board of Engineers Malaysia. The processing fee is excluded bank and credit card charges.
	<ul style="list-style-type: none"> Money order or Postal order Bank draft or cheque Online payment via M2u or CIMB Clicks or RHB 	<ul style="list-style-type: none"> Tele-graphics transfer <i>Credit card option will be offered soon.</i>

4. The certified copy of the degree scroll from a foreign university which is not in English language shall be accompanied by a translation of it in English or Bahasa Malaysia.
5. Only complete application with all the supporting documentation will be processed and submitted to the Board for approval.
6. Upon approval, a Certificate of Registration as a Graduate Engineer will be issued.
7. Every application for registration shall be decided upon by the Board within four months from the date of receipt of such application

DECLARATION TO BE SIGNED BY APPLICANT

1. Applicant must declare that he/she agree to abide:
 - (a) The Registration of Engineers Act 1967 and the Registration of Engineers Regulations 1990; and
 - (b) Notifications and circulars issued by the Board of Engineers Malaysia
2. Authorise BEM to seek clarification on any information submitted in any manner and by any means as it deems fit and proper.

PENALTY

Section 24(a) of the Registration of Engineers Act 1967: "Any person, sole proprietorship, partnership or body corporate who 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, 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."