



# The Institution of Engineers, Malaysia

Bangunan Injenieur, Lots 60/62, Jalan 52/4, Peti Surat 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor Darul Ehsan, Malaysia.  
Telephone: 603-79684001/79684002 Email: sec@iem.org.my Fax No: 603-79577678 Homepage: http://www.iem.org.my

## BORANG IEM/PI (M)

### PERMOHONAN MENJADI / PEMINDAHAN KEPADA AHLI KORPORAT

#### ARAHAN KEPADA PEMOHON

**Sila baca dengan teliti sebelum mengisi Borang IEM/PI (1) & (2)**

1. Sila isi borang dengan lengkap. Borang ini boleh **ditaip** atau **ditulis** dalam **huruf besar**.
2. Sila sertakan sekeping foto paspot terbaru.
3. Satu salinan setiap dokumen berikut perlu **DISAHKAN** dan lampirkan bersama permohonan ini.
  - i) Pendaftaran Siswazah Lembaga Jurutera Malaysia.
  - ii) Ijazah Kejuruteraan dan slip keputusan / transkrip pengajian.
5. Ijazah dalam kejuruteraan yang tidak menunjukkan Bahagian/Cawangan/Disiplin dikehendaki menyerahkan **DOKUMEN TAMBAHAN** (misalnya : slip keputusan, surat dari Jabatan dll) untuk menunjukkan disiplin.
  - i) Salinan ijazah kejuruteraan dan Ijazah dari Universiti tempatan hendaklah dikemukakan dalam **Bahasa Malaysia** atau **Bahasa Inggeris**. Ijazah luar negeri yang menggunakan bahasa ibundanya selain dari Bahasa Inggeris hendaklah dikemukakan bersama terjemahannya oleh Pendaftar Universiti/Pegawai Kedutaan dll.
  - ii) Salinan "*Transcript of Academic Record*" atau "*detail of course and subjects*" yang diambil semasa di Universiti. Salinan ini mestilah dikeluarkan oleh pihak Universiti.
6. Pemohon yang mempunyai ijazah pertama yang tidak diiktiraf oleh Institusi Jurutera Malaysia dan kemudiannya telah memperolehi Ijazah Sarjana adalah dikehendaki menyerahkan kedua-dua transkrip yang lengkap.
7. Jurutera siswazah adalah diingatkan tentang keperluan Akta Pendaftaran Jurutera. Penerangan lanjutan boleh diperolehi daripada:

Lembaga Jurutera Malaysia  
d/a Kementerian kerja Raya Malaysia,  
Jalan Sultan Salahuddin,  
50580 Kuala Lumpur.  
Tel : 03-2696 7095
8. Semua siswazah mestilah memperolehi pengalaman praktik di bawah MIEM dan P.Eng. (Jurutera Profesional) berdaftar dengan BEM agar pengalaman mereka dapat diiktiraf di bawah Akta, untuk tujuan Pendaftaran sebagai Jurutera Profesional. (Lihat "Bagaimana untuk menjadi Jurutera Profesional").
9. Jurutera siswazah dinasihatkan mendapat latihan di bawah seorang Jurutera berkelayakan MIEM dan P.Eng dalam disiplin yang sama atau disiplin yang berkenaan untuk melayakkan diri menduduki Temuduga Profesional; salinan Peraturan Temuduga Profesional boleh didapati dari Urusetia IJM.
10. Semua pemohon adalah diingatkan supaya merujuk kepada Peraturan Temuduga Profesional semasa mengisi borang IEM/PI (2) dan borang ini hendaklah dikemukakan kepada Penemuduga Profesional bila diminta.
11. Sila ambil perhatian, hanya pengalaman yang diperolehi semenjak tarikh lulus sebagai jurutera saja boleh diterima untuk tujuan Temuduga Profesional.

**SEMUA SIJIL, DOKUMEN DLL. YANG DISERAHKAN MESTILAH DISAHKAN OLEH PENCADANG / PENYOKONG ANDA.**

**SERTAKAN YURAN TEMUDUGA PROFESIONAL (RM 150.00 UNTUK AHLI SISWAZAH ATAU RM 200.00 UNTUK AHLI BUKAN SISWAZAH)**

**KEGAGALAN UNTUK MEMATUHI ARAHAN DI ATAS AKAN MENGAKIBATKAN KELEWATAN DALAM PEMROSESAN PEMOHONAN ANDA.**

(Nota : Sebarang keraguan jika ada; interpretasi dalam Bahasa Inggeris adalah muktamad)



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## FORM IEM/PI (M)

### APPLICATION FOR ELECTION / TRANSFER AS CORPORATE MEMBER

#### INSTRUCTION TO APPLICANT

*Please read this and comply before completing Forms IEM/PI (1) & (2)*

1. *Please fill in all particulars requested. This forms can be **typewritten** or **handwritten** in neat block letters.*
2. *Please attach one copy of your recent passport photograph.*
3. *One copy of the following documents duly **CERTIFIED** and to be submitted together with the application form.*
  - i) *BEM registration letter.*
  - ii) *Degree(s) in engineering and result slip / academic transcript.*
5. *Degree(s) in engineering that do not show the Division/Branch/Discipline require applicant to submit **ADDITIONAL SECONDARY DOCUMENT** (eg : subject Result slip, Department's letter etc.) to indicate the Discipline.*
  - i) *Photocopies of engineering certificates from local universities in **Bahasa Malaysia or English** version are required. Certificate from overseas universities issued in foreign languages must be accompanied by translation obtained from University Registrar/Embassy Official, etc.*
  - ii) *Copies of "**Transcript of Academic Record**" or "**details of course and subject**" to be taken at the University. The document must be issued by the University where the applicant had attained the degree.*
6. *Applicants who have obtained a first degree which is not recognised by The Institution of Engineers, Malaysia and subsequently obtained a Masters Degree are requested to submit the full transcript of both first and Masters Degree.*
7. *Graduate engineers are reminded of the requirement of the Registration of Engineers Act. The details are obtainable from*

*The Board of Engineers, Malaysia  
c/o JKR Headquarters,  
Jalan Sultan Salahuddin,  
50580 Kuala Lumpur.  
Tel : 03-2696 7095*
8. *All Graduates must gain practical experience under MIEM and P.Eng (Professional Engineer) registered with the BEM for their experience to be recognised under the Act, for the purpose of Registration as a Professional Engineer. (See 'How to be a Professional Engineer').*
9. *Graduates are advised to have their training under MIEM and P.Eng in the same or approved allied discipline so as to avoid problems in getting registration with BEM later.*
10. *To facilitate prompt processing, all participants are reminded to complete the Forms IEM/PI (2) with reference to the latest copy of the Professional Interview Regulation and submit to the Professional Interviewers upon request.*
11. *Pre-qualifying experience if any, should be briefly recorded. Please note that only experience obtained from date of graduation as an Engineer to the closing date of application can be entered and accepted for Professional Interview purposes.*

**ALL CERTIFICATES, DOCUMENTS, ETC. SUBMITTED MUST BE CERTIFIED BY YOUR PROPOSER/SECONDER.**

**ENCLOSE ONLY PROFESSIONAL INTERVIEW FEE (RM 150.00 FOR GRADUATE MEMBER OR RM 200.00 FOR NON-MEMBER).**

**FAILURE TO COMPLY WITH ABOVE WILL RESULT IN THE DELAY IN PROCESSING OR YOUR APPLICATION.**



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## MAKLUMAT TAMBAHAN YANG DIPERLUKAN

1. Pengesahan sama ada program tersebut adalah program berkembar atau program sepenuh masa di University berkenaan.
2. Nama-nama Kolej tempatan di mana tamatnya program sebelum melanjutkan pelajaran ke peringkat Ijazah.
3. Jumlah tahun pengajian di Universiti semasa mengikuti program berkenaan.
4. Kandungan kursus ijazah kejuruteraan di Universiti.
5. Transkrip Rekod Akademik terperinci mengenai kursus dan mata pelajaran yang diambil di Universiti. Surat berkenaan hendaklah dikeluarkan oleh Universiti di mana ijazah dikeluarkan.
6. Semua kelayakan masuk Universiti hendaklah dinyatakan di dalam Borang Permohonan di bawah ruangan 3 dan disertakan salinan sijil (yang disahkan).

## KEGAGALAN MENGHANTAR MAKLUMAT-MAKLUMAT DAN DOKUMEN YANG DIPERLUKAN AKAN MENYEBABKAN KELEWATAN DALAM PEMROSESAN PEMOHONAN.

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## BORANG PERMOHONAN

Sila periksa dan pastikan dokumen-dokumen berikut telah lengkap dan **DISAHKAN** oleh Penyokong/Pencadang sebelum dihantar bersama borang permohonan ke IEM.

- Borang IEM/PI (1)
- 1 keping gambar ukuran paspot
- Tandatangan Pencadang & Penyokong (Sila patuhi syarat yang dinyatakan)
- Tandatangan Pemohon
- Tandatangan Pencadang dan Penyokong di setiap lampiran 'Pengalaman dan Latihan' (Perenggan 12)
- Tarikh Permulaan Pengalaman Kerja di perenggan 12 hendaklah bermula selepas tarikh penerimaan ijazah pertama
- Surat Pendaftaran Siswazah dari Lembaga Jurutera Malaysia
- Sijil Ijazah (versi **Bahasa Melayu atau Inggeris** bagi Universiti tempatan)
- Transkrip Rekod Akademik (Ijazah)
- Yuran Temuduga Profesional
  - RM150.00 (untuk Ahli Siswazah)
  - RM200.00 (untuk bukan Ahli)
- Semua dokumen-dokumen berkenaan telah **disahkan** oleh Penyokong / Pencadang.



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## ***FURTHER INSTRUCTIONS TO APPLICANT ADDITIONAL REQUIREMENT***

1. *Verification whether the programme is the twinning programme or a full time programme at the University.*
2. *The name of local colleges that you have completed the programme before pursuing the degree course.*
3. *Number of years spend at the University while following this programme.*
4. *Course Content of your engineering degree course at the University.*
5. *Transcript of Academic Record on details of course and subjects to be taken at the University. The letter must be issued by the University you have attained your degree.*
6. *All entry qualification of University to be indicated in the Application Forms under column 3 and enclosed with photocopy of certificate (duly certified)*

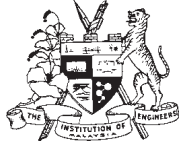
***FAILURE TO SEND THE NECESSARY DOCUMENT AND INFORMATION WILL CAUSE UNDUE DELAY IN THE PROCESSING OF YOUR APPLICATION.***

\*\*\*\*\*

### ***APPLICATION CHECKLIST***

*Please check the following and submit together with the application form duly **CERTIFIED** by your Proposer or Seconder to the IEM.*

- Form IEM/PI (1)*
- *1 passport size photo*
- *Signature of Proposer & Seconder (Please comply with requirements stated)*
- *Signature of applicant*
- *Signature of Proposer and Seconder at every of teh additional attachment on 'Statement of Training and Experience' (Item 12)*
- *Working experience in item 12 to be declared after the date of graduation of first Degree.*
- *Registration letter from Board of Engineers, Malaysia*
- *Degree (**English or Malay version** for local universities)*
- *Degree transcript*
- Professional Interview fee*
  - *RM150.00 (for Graduate Member)*
  - *RM200.00 (for Non-Member)*
- All photocopies documents duly **CERTIFIED** by Proposer or Seconder*



# INSTITUSI JURUTERA MALAYSIA (IJM)

## The Institution of Engineers, Malaysia (IEM)

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### PERMOHOHAN MENJADI AHLI KORPORAT APPLICATION FOR ELECTION AS CORPORATE MEMBER

Sila rujuk kepada ARAHAN-ARAHAN KEPADA PEMOHON untuk mengisi borang ini.  
Please refer to the INSTRUCTION TO APPLICANT to fill in.

#### **PART A**

#### 1. BUTIRAN PERIBADI PERSONAL PARTICULARS

Nama Penuh: .....  
Full Name: (Guna huruf besar dan garis nama keluarga)  
(Use block letters and underline surname)

Alamat Tetap: .....  
Permanent Address

Alamat Pos : .....  
Postal Address

Nombor Telefon : Rumah ..... Pejabat: .....  
Telephone Number: Residential Office

Bimbit: ..... Email: .....  
(Handphone) Email Address:

Tempat Lahir: ..... Bandar ..... Negeri ..... Tarikh Lahir: .....  
Place of Birth: Town State Date of Birth:

Umur: ..... Kewarganegaraan: ..... Nombor Kad Pengenalan: .....  
Age: Nationality I.C. No.

(Perhatian : Sebarang perubahan alamat, nombor telefon pekerjaan hendaklah diberitahu kepada IJM dengan segera).  
(N.B. Any change of address, employment telephone number must be notified promptly to the IEM)

#### 2. KEDUDUKAN SEMASA CURRENT POSITION

Majikan: .....  
Employer

Alamat: .....  
Address

Jawatan: ..... Tarikh Perlantikan: .....  
Position Date of Appointment

Nama Jurutera Yang Bertanggungjawab/Jawatan: .....  
Name of Engineer responsible to/Position

No. Ahli IJM (Jika ada) ..... Disiplin: .....  
IEM Membership No. (if any) Discipline

#### 3. LATAR BELAKANG PENDIDIKAN (EDUCATION BACKGROUND)

##### 3.1 UMUM (GENERAL)

Nama Sekolah Menengah & Kedudukan (Bandar/Negeri) Name of Secondary School & Location (Town/State)	Tahap Lulus Peperiksaan (Contoh : SPM / STPM Gred) Level of Examination passed (e.g. SPM /STPM Grade)	Tarikh Sijil Dianugerahkan Date Certificate Awarded

##### 3.2 KEJURUTERAAN ENGINEERING

Nama Universiti/Kolej/Institusi Pengajian Tinggi Name of University/College/Institution of Higher Learning	Kelulusan Diperolehi (Contoh: PhD/Sarjana/Ijazah/Diploma/Sijil/dll Qualification Awarded (eg.PhD/MSc/Bachelor's degree/Diploma/Certificate/etc)	Tarikh Dianugerahkan Date of Award



Passport  
Photo

**4. MOD PEMBELAJARAN** Sila tandakan (✓) di kotak berkaitan (Please tick (✓) in the appropriate box)  
*MODE OF STUDY*

- a. Sarjana Muda Kejuruteraan : i) Sepenuh Masa  ii) Program Bertindih   
*Bachelor's Degree Full Time Sandwiched Programme*
- b. Program Berkembar : i) 4+0  ii) 2+2  iii) Lain-lain, sila nyatakan: \_\_\_\_\_  
*Twinning Others, please specify:*
- c. Lain-lain : i) Peperiksaan Siswazah IEM/BEM  ii) Engineering Council   
*Others IEM/BEM Graduate Examination*
- d. Program Franchise   
*Franchised Program*
- i) Nama Kolej : \_\_\_\_\_ ii) Nama Institusi Franchise yang menganugerahkan: \_\_\_\_\_  
*Name of College Name of University Franchised*

**5. KENYATAAN OLEH PENCADANG DAN PENYOKONG**

*STATEMENT BY THE PROPOSER AND SECONDER*

(Pencadang dan Penyokong diminta mengesahkan kenyataan Pemohon berdasarkan maklumat yang ada berkenaan Pemohon)  
(Proposer and Seconder are requested the Applicant's statements based on their personal knowledge)

SETELAH mengenali pemohon selama ..... tahun; setakat pengetahuan saya dalam semua aspek, saya mengesyorkan beliau adalah layak dilantik sebagai Ahli Institusi ini.

*HAVING known the applicant for ..... years, I recommend him, from personal knowledge, as in every respect, worthy of the distinction of being elected as Member of the Institution.*

NAMA PENCADANG: .....  
*NAME OF PROPOSER*

Gred: Ahli Fellow / Ahli: ..... No. Ahli: ..... Disiplin : .....  
*Grade: Fellow / Member Membership No. Discipline*

Alamat : .....  
*Address:*

Tandatangan: ..... Tarikh: .....  
*Signature Date*

NAMA PENYOKONG: .....  
*NAME OF SECONDER*

Gred: Ahli Fellow / Ahli: ..... No. Ahli: ..... Disiplin : .....  
*Grade: Fellow / Member Membership No. Discipline*

Alamat : .....  
*Address:*

Tandatangan: ..... Tarikh: .....  
*Signature Date*

(Nota : Salah seorang daripada Ahli Korporat di atas mestilah Ahli Fellow atau Ahli Korporat yang telah menjadi Ahli tidak kurang daripada 10 tahun). Kami, Ahli Korporat yang menandatangani di atas sependapat dengan cadangan ini berdasarkan pengetahuan diri masing-masing.

*(NOTE : One of the above Corporate Members must be a FELLOW or a Corporate member of not less than 10 years standing with the Institution). We, the above signed Corporate members concur with the above recommendation from personal knowledge.*

**PART B**

**6. DISPLIN KEJURUTERAAN YANG DIPOHON:** \*Awam / Mekanik / Elektrik / Kimia / dll. ....  
*DISCIPLINE OF ENGINEERING APPLIED FOR: \*Civil/Mechanical/Electrical/Chemical, etc*

**7. BAHASA PERANTARAAN TEMUDUGA**  BAHASA MELAYU  ENGLISH  
*LANGUAGE MEDIUM FOR INTERVIEW*

(Perhatian: Laporan Pengalaman, Temuduga dan Esei mestilah didalam bahasa perantaraan yang dipilih)  
(Note: The Experience Report, Oral Interview and Essays shall be in the chosen language)

**8. SILA NYATAKAN BUTIR-BUTIR PERMOHONAN SEBELUM INI (jika ada):**  
*PLEASE STATE PARTICULARS OF PREVIOUS APPLICATION (if any)*

Tarikh temuduga yang lepas .....  
*Date of previous interview (Write NIL if not applicable)*

Sebab-sebab tidak berjaya : Tidak memenuhi kelayakan menduduki Temuduga Profesional/   
*Reasons for unsuccessful: Unable to meet the requirement to sit for the Professional Interview/*  
Tidak dapat menghadiri Temuduga Profesional pada masa yang ditetapkan/   
*Unable to attend the Professional Interview at the allocated time/*  
Kandas Temuduga Profesional/   
*Fail the Professional Interview/*  
Tarik diri   
*Withdraw*

**9. NOMBOR AHLI SISWAZAH IJM (jika ada) :** .....  
*IEM GRADUATE MEMBERSHIP NUMBER: (if any)*

**10. SAYA SERTAKAN YURAN TEMUDUGA PROFESIONAL** : RM150.00 untuk Ahli Siswazah IJM  
*I TENDER HEREWITH THE PROFESSIONAL INTERVIEW FEE OF RM150.00 for Graduate Member of IEM*  
RM200.00 untuk bukan ahli IJM  
*RM200.00 for Non-member of IEM*

**11. Saya akan menyediakan dan menyerahkan terus kepada Penemuduga Profesional yang di lantik oleh IJM.**

*I shall prepare and submit direct to the Professional Interviewers, nominated by the IEM*

(a) Dua salinan laporan latihan dan pengalaman saya, dan  
*Two copies of my Report on Training and Experience, and*

\* (b) Satu set Lukisan bersama dengan Pengiraan Rekabentuk, dll.  
*A set of Drawings together with Design Calculations, etc*

atau \* (c) Satu set \*Dokumen / Tesis atas Kerja Penyelidikan / .....  
*or A set of \*Documents / Thesis on Research Work /*

dan \* (d) Borang Perakuan, Borang IEM/PI (2) yang ditandatangani oleh Majikan / Jurutera sepertimana yang diperlukan dan permohonan untuk ditemuduga serta menulis esei mengenai tajuk yang ditentukan.  
*and A Professional Interview Certificate, Form IEM/PI (2) duly signed by the \*Employer / Engineer as required and an application to be interviewed thereon and to write Essays on the subject to be specified.*

**12. PENGALAMAN PROFESIONAL: Maklumat haruslah ringkas dan informatif (Guna muka surat tambahan jika perlu).**

*PROFESSIONAL EXPERIENCE: Information should be as brief and informative as possible. If insufficient, use additional sheets*

Tarikh (bulan & tahun) berkaitan dengan setiap jawatan <i>Date (mths &amp; yr) in relation to each appointment</i>	BUTIRAN LATIHAN & PENGALAMAN <i>Statement of Training &amp; Experience</i>	Nama, dan alamat Jurutera yang menyelia kerja <i>Name, title and Address of Supervising engineer</i>  <i>(* (i) must be in the same discipline; ii) duration under his supervision; iii) professional status)</i>	Bidang Pengalaman (bulan) <i>Experience area (in months)</i>					Tandatangan Pencadang dan Penyokong <i>Signature of Proposer and Seconder</i>
	Perihal Jawatan yang dipegang, Majikan, lokasi dan penjelasan mengenai tanggungjawab dan jenis kerja <i>State concisely Position held, Name of Employer, location dan description of each work</i>		Jumlah <i>Total</i>	D1 <i>Rekabentuk / Pejabat Design / Office</i>	D2 <i>Tapak / Kerja Luar Site / Field</i>	D3 <i>Perancangan / Pengurusan Planning / Management</i>	D4 <i>Kerja-kerja Kejuruteraan Lain Other Engineering Works</i>	
A	B	C	D					E
								Nama dan Tandatangan <i>Name and Signature</i>

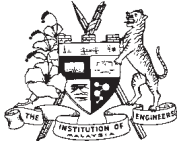
NOTA : IJM tidak bertanggungjawab keatas kehilangan atau kerosakan sebarang dokumen-dokumen ASAL yang dihantar bersama permohonan ini.

NOTE : IEM is not responsible for the loss of, or damage to, any ORIGINAL document forwarded with this application









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### TEMUDUGA PROFESIONAL – BORANG PERAKUAN DAN PENGESAHAN DOKUMEN UNTUK TEMUDUGA

PROFESSIONAL INTERVIEW – DECLARATION AND CERTIFICATION OF DOCUMENTS FORM

**Nota Penting:** Jurutera yang menandatangani Borang ini (mestilah Ahli Institusi jurutera Malaysia dan dari disiplin yang sama dengan pemohon) perlulah diingatkan bahawa beliau bertanggungjawab untuk mengesahkan bahawa lukisan / dokumen yang diserahkan telah dilukis dilaksanakan oleh pemohon semasa pekerjaannya.

**Important Note:** The Engineer signing this Form (must be a Corporate Member of the Institution of Engineers, Malaysia and of the same discipline) is reminded that he is responsible for confirming that the drawings/documents submitted have been executed by the candidate in the ordinary course of his employment.

- \* Sila potong mana yang tidak berkenaan.
- \* Please delete whichever is not applicable
- \*\* Sekiranya lukisan adalah salinan dalam bentuk foto atau lakaran daripada lukisan asal, maka Majikan / Jurutera dikehendaki juga menandatangani salinan yang dibuat.
- \*\* If any drawing is a photo print or a tracing from an original drawing, then the Employer / Engineer must also sign the duplicate.

Nama Penuh: ....., pemohon untuk Temuduga  
NAME in Full, who is a candidate for the

Professional masih / telah \*bekerja di bawah penyeliaan saya dalam jawatan .....  
Professional Interview is / has been \*employed under me in the capacity of

..... dari ..... ke .....  
..... from ..... to .....

Saya telah menyemak dan menandatangani Lukisan \*\*dan / atau\* Dokumen seperti tercatat dibawah yang dihantar oleh pemohon untuk Penemuduga.  
I have vetted and signed the Drawings \*\*and / or\* Documents described below which he/she proposes to submit to the Interviewers.

#### **KENYATAAN LUKISAN \*\*dan / atau\* DOKUMEN** DESCRIPTION OF DRAWINGS \*\*and / or\* DOCUMENT

#### **I. PENGESAHAN LUKISAN / DOKUMEN ASAL OLEH MAJIKAN / JURUTERA** CERTIFICATION OF THE ORIGINAL DRAWINGS / DOCUMENTS BY THE EMPLOYER / ENGINEER

Saya mengesahkan bahawa lukisan\* dan / atau dokumen telahpun dilukis / dilaksanakan oleh pemohon sepanjang perkhidmatannya di bawah penyeliaan saya.  
I hereby certify that these drawings \*\*and/or\* document have been executed by the candidate in the ordinary course of his employment under my general supervision.

Tandatangan: .....  
Signature

Tarikh:.....  
Date

Nama Jurutera: .....  
Name of Engineer

Grad IJM : Ahli Fellow /Ahli Korporat : .....  
Grade IEM : Fellow / Corporate Members\*

Jawatan: .....  
Position

Nombor Ahli: .....  
Membership Number

#### **II. PENGESAHAN LAKARAN / FOTO OLEH MAJIKAN / JURUTERA** CERTIFICATION OF THE TRACING / PHOTOPRINT BY THE EMPLOYER ENGINEER

Saya mengesahkan bahawa lakaran / foto\* tersebut di atas adalah:  
I hereby certify that the tracing / photoprint\* referred to above is:

- \* (a) satu foto daripada lakaran lukisan yang dibuat oleh pemohon sendiri.  
a photo print from a tracing made by the candidate of a drawing also made by him
- \* (b) satu foto daripada lakaran atas kertas lakaran yang dibuat oleh pemohon sendiri.  
a photo print from a tracing made by the candidate on tracing paper (or cloth)
- \* (c) satu lakaran atau lukisan yang dibuat oleh pemohon sendiri.  
a tracing / drawing made by the candidate or a drawing also made by him.

Tandatangan: .....  
Signature

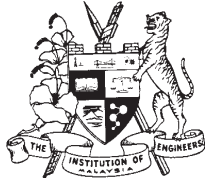
Tarikh:.....  
Date

Nama Jurutera: .....  
Name of Engineer

Grad IJM : Ahli Fellow/Ahli Korporat:.....  
Grade IEM : Fellow / Corporate Members\*

Jawatan: .....  
Other Position

Nombor Ahli: .....  
Membership Member



# INSTITUSI JURUTERA MALAYSIA

## The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223 (Jalan Sultan), 46720  
Petaling Jaya, Selangor Darul Ehsan, Malaysia.

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### THE PROFESSIONAL INTERVIEW QUESTIONS

Questions applicable to Section B of the Essay as at 1.1.2001

#### Code of Ethics Questions

The main purpose of these questions is to manifest professionalism of a candidate. A candidate should have gained some understanding of the Professional Code of Ethics and conduct before entering for the Professional Interview. The questions selected by the Examiners may be expected to be familiar.

A candidate would be expected to demonstrate :-

- (a) That he has thought sufficiently about the role of the engineer in the society vis-à-vis his professional Code of Ethics.
- (b) That he can write in clear and concise manner that is intelligible to laymen.

Candidate would be expected to answer only 1 question out of 2 selected by the Examiners from among the 15 questions listed below:-

1. Discuss the dilemma engineers face in balancing capital expenditure versus optimum design for efficient operations and maintenance, bearing in mind the impact of capital expenditure on the engineer's fees.
2. Technological and economic efficiencies in providing service to the public are the expected benefits from the privatisation of public utilities companies in Malaysia. Discuss with examples whether the technological benefits of privatisation have been achieved.
3. Are the present safety practices of your industry adequate? What steps do you consider should be taken by the industry to address the present situation?
4. The manifestation of professionalism among engineers occurs through their interactions with other segments of the society, which can be viewed essentially as an exercise in group dynamics. In this regard, the Institution of Engineers, Malaysia (IEM) is ideally constituted to serve this purpose. Discuss the various functions that can be provided by IEM in promoting professionalism.
5. In this technological age, the power of the engineers in shaping the society and environment in all pervading and can profoundly affect the lives of many members of the society. Enumerate, from your personal experience, how largely positive impacts have accrued from the contributions of engineers.
6. "He shall not under any circumstances solicit advisory or consultative work, either directly or by an agent, nor shall he pay, by commission or otherwise any person who may introduce clients to him". Discuss the ways in which an engineer, especially one that is a newcomer to the field, can project him/herself as a responsible professional to the society without being guilty of violating the above.
7. Engineers are often entrusted with the responsibility of implementing large-scale project involving millions of dollars. In view of the large amount of money changing hands, the integrity and ethical standards of engineers are being put to test. What measures can an engineer take to prevent corruption an unethical practice of cutting corners in order to safeguard the good image of the engineering profession?

8. As an engineer responsible for the development of a new project, your first task according to the planning schedule is to clear the land and prepare the site for construction. To do so, you will need to clear vast stretches of land that will undoubtedly cause land erosion and subsequently contaminating of streams and rivers around the site. You are under tremendous pressure to finish the task as the job is already behind schedule. Given the constraints that you have with regards to deadline, limited technical solutions and the preservation of the environment, discuss the ethical considerations, which confront you under the circumstances.
9. In recent years, there is stronger awareness by the public at large for better quality works in a construction project. How can a professional engineer ensure better quality construction without conflicting with the profit objectives of both the owner and the contractor?
10. 'Conflict of professional interest frequently arises in the working environment of an engineer'. Discuss the statement and propose the appropriate solutions for overcoming the problem.
11. Recent years have seen increased national and international Protocols and Regulations and national Acts and Legislation on the control of many forms of pollution. Discuss the needs and consequences of observing these regulations with special reference to the particular industry you are involved in.
12. "In today's dynamic marketplace, many organisations/industries are initiating cost reduction measures to remain competitive". Discuss the contradictory demand of cost reduction programmes and the need to invest to enhance the standards of Health, Safety and Environment (HSE) in the industry. Is it possible to be cost-effective yet meeting the ever-increasing HSE requirements?
13. Engineers are increasingly playing a significant role in the nation's fast pace development. Please suggest how engineers can make greater contributions with awareness in safety, health and environment and how engineers can keep abreast with the development of technology without confining to one's specific roles or disciplines.
14. In a turnkey project, the turnkey contractor requested you as a consultant to put up irregular (i.e. non-conforming to current engineering practice) proposals to maximise profits from the project. Discuss the key points that you must address so as not to compromise on your professional ethics.
15. With the rapid development in IT, would virtual Laboratories be a good substitute for real ones in engineering? Elaborate on the merits and demerits of the issue.

# NEW IEM AND BEM TRAINING REQUIREMENT

*The Institution of Engineers, Malaysia and The Board of Engineers, Malaysia will implement new training requirements for all Graduate Engineers who register from 1 January 2005*

The Board of Engineer, Malaysia and The Institution of Engineers, Malaysia have decided to implement revised training requirement for graduate engineers who desire to become professional engineers. This is in view of the fact that engineering students follow varied routes in their pursuit for an engineering degree. The requirements include, beside extended training period, compulsory courses to be undertaken, participation in Professional Development Programmes (PDP) and involvement in continuing engineering education programmes. With these measures, it is hoped that we will improve the quality of our Professional Engineers who will be able to serve globally.

The training requirements will be effective for graduates from accredited univerisity programmes registered after 1 January 2005. The detailed requirements are as follows:

The practical experience that a registered Graduate Engineer is required to obtain under Section 10 (I)(b) of the Act in order to be entitled to apply for registration as a Professional Engineer shall be carried out in a manner satisfactory to the Board for a period of not less than **THREE (3)** years covering the following:

- a) General Training which should link the conceptual analytical abilities developed during the degree course with its wide application in industry and give sound base for professional development, for a period of not less than **TWO (2)** years of which up to twelve months of relevant, accredited recognised industrial training during the undergraduate course may be credited.
- b) Professional Career Development Training, which will provide exposure to skills awareness, management, responsibility, teamwork, logical approach etc. for a period of not less than **TWO** years.
- c) Satisfactory Attendance in the following course conducted by BEM or institution approved by BEM.

(i) Code of Ethics	12 hrs
(ii) Occupational Safety and Health at work, relevant bylaws / regulation	12 hrs
(iii) Engineering Management Practice	12 hrs
(iv) Topics related to branch of engineering	24 hrs
- (d) Completion of not less than **30 units** of professional development which includes attendance at talks, seminars, meetings and community services.

## ROUTE TO PROFESSIONAL ENGINEER STATUS

The IEM Secretariat receives numerous enquiries almost daily from graduate engineers as to how they can qualify as professionals.

Listed below the steps which are necessary to enable graduate engineers to be registered by the Board of Engineers, Malaysia (BEM) as Professional Engineers (P.E).

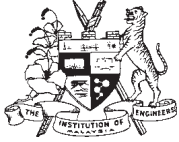
- 1) Register with the Board of Engineers upon graduation as it is compulsory under the Engineers Act 1967 for all practising engineers to register with the Board.
- 2) All Graduate engineers are required to complete at least **THREE (3)** years of relevant work experience after graduation with an accredited engineering degree. These training stints should as far as possible be completed under the guidance of a P.Eng. who is in the same discipline as the Graduate engineer.

After registration with the Board, the engineers could approach towards their objectives of obtaining P.E. either on their own or through the IEM Log book scheme.

If they opt for the IEM Log Book Scheme, they should follow the procedures documented in the TRAINING SCHEME GUIDELINES attached.

Once the candidates complete their training (either on their own or through the IEM Log Book scheme), the next step for them is to sit for the Professional Interview conducted by IEM. Once they pass this interview (which consists of oral questions and essay writing) they could be admitted as Corporate Members of IEM and are then eligible to apply to the BEM to be registered as P.Eng.

**Implementation Date: September 2007**



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## **Training Scheme**

### **1.0 INTRODUCTION**

- 1.1 The objective of the Institution of Engineers, Malaysia is the advancement of engineering profession. Before becoming a Corporate member of the Institution and/or being registered under the Registration of Engineers Act, 1967 a person must have received engineering education and advanced training to standards determined by the Institution and the Board of Engineers, Malaysia.
- 1.2 The Institution and the Board are two separate bodies. However, their representatives work together in committees of the Institution to establish common standards of education and training and the Board normally accepts the standards of the Institution as satisfying its requirements. Professional Interviews are conducted by the Institution for Corporate membership of the Institution.

### **2.0 THE INSTITUTION TRAINING**

- 2.1 The Institution Training Scheme is drawn up by the Institution to provide for the proper practical training of young graduates entering the profession of engineering and to ensure the such training conforms to the Institution Rules concerning the admission of Corporate Members.
- 2.2 Although not obligatory, it will normally be advantageous for a candidate appearing for the Professional Interview to obtain his practical experience under a formal training scheme of the Institution supervised by a Corporate Member of the Institution.
- 2.3 The Professional Interview Regulations state that a Candidate shall have at least THREE (3) years (after graduation with an accredited engineering degree) of approved experience in planning, design, execution or management of such works as stipulated and relevant for the profession of an engineer. Candidates may apply for P.I. after having undergone at least THREE (3) years of relevant work experience - either through the IEM Log Book Scheme or working experience under the guidance of a Corporate Member of IEM of the same discipline.
- 2.4 Other training scheme(s) bearing similar provisions as the Institution training scheme may be accepted as its equivalent. Prior approval of the Institution is required for such scheme to be accepted. Please check with Secretariat.

### **3.0 ADMINISTRATION OF TRAINING SCHEMES**

- 3.1 The Institution shall prepare, maintain and keep under review, a register of Corporate Members who are willing to act as mentors to candidates for approved practical training as set out in the IEM Professional Interview Regulations.
- 3.2 Applicants for inclusion in the register may be made to the Honorary Secretary of the Institution on a prescribed Form. The requirements are as follows:
- (a) The Corporate Member shall be in such a position of responsibility as will enable him, in the opinion of the council, to ensure that the Candidate obtains adequate and relevant practical training in the field, office and on works, and to exercise such supervision that he can sign the certificate required by the Institution on the completion of the training period.
  - (b) He shall have been a Corporate Member for at least three years.
  - (c) He shall not act as mentor to more than three candidates at any one time.
  - (d) He shall undertake to report any change of circumstances which may prevent him from providing proper training to the Candidate.
- 3.3 The Candidate shall perform this practical training under the Institution Training Scheme on a prescribed Institution Log Book available at a prescribed fee of RM10/- per copy.
- 3.4 On satisfactory completion of the period of training, the Candidates shall prepare the necessary documents to be signed by the Corporate Member and shall submit this with his application to sit for the Professional Interview.

**Implementation Date: September 2007**