## professional engineers board singapore

# ASSESSMENT STATEMENT FOR ASEAN CHARTERED PROFESSIONAL ENGINEER

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### **TABLE OF CONTENTS**

IN'	TRODUCTION	.4		
1	The ASEAN Mutual Recognition Arrangement (MRA) on Engineering Services	. 4		
2	ASEAN Chartered Professional Engineer (ACPE)	. 4		
3	Registered Foreign Professional Engineer (RFPE)	. 4		
4	Privilege and obligation of a Registered Foreign Professional Engineer (RFPE)			
5	Purpose and operation of Assessment Statement	. 5		
PA	RT A: THE PROFESSIONAL REGULATORY			
AU	THORITY AND MONITORING COMMITTEE	.6		
6	The Professional Regulatory Authority in Singapore	. 6		
7	The Monitoring Committee in Singapore	. 7		
8	Roles of the Monitoring Committee (MC)	. 7		
9	Authorisation to work as Registered Foreign Professional Engineers	. 8		
PA	RT B: ASSESSMENT MECHANISMS	,9		
10	Requirements for registration as ASEAN Chartered Professional Engineer (ACPE)	. 9		
11	Completion of an accredited or recognised engineering programme	. 9		
12	Eligibility for Independent Practice	10		
13	Attainment of a minimum of seven years of practical experience since graduation	10		
14	Completion of at least 2 years in responsible charge of significant engineering work.	11		
15	Maintenance of Continuing Professional Development (CPD)	11		
16	Compliance with Code of Professional Conduct and Ethics	12		
17	Keeping of records for continuing mutual monitoring	12		
PA	RT C: REGISTRATION PROCESS1	13		
18	Guide to Application for Registration as ACPE	13		
AN	NEX 1: MEMBERS OF THE MONITORING COMMITTEE,			
SI	NGAPORE1	15		

ATTACHMENT 1	16
Requirements for registration (in non-prescribed branches of engineering) with the Monitoring Committee.	
ATTACHMENT 2	18
List of Acceptable Academic Qualifications for Registration with the Monitoring Committee as a Practitioner for Independent Professional Practice in a Non-Prescribed Branch of Engineering	

#### INTRODUCTION

## 1 The ASEAN Mutual Recognition Arrangement (MRA) on Engineering Services

- 1.1 The Governments of Member Countries of the Association of South East Asian Nations (collectively referred to as "ASEAN", and comprising Brunei Darussalam, the Kingdom of Cambodia, the Republic of Indonesia, Lao People's Democratic Republic, Malaysia, the Union of Myanmar, the Republic of the Philippines, the Republic of Singapore, the Kingdom of Thailand, and the Socialist Republic of Viet Nam) have agreed on the ASEAN Mutual Recognition Arrangement on Engineering Services which aims to:
  - a) facilitate mobility of engineering services professionals; and
  - b) exchange information in order to promote adoption of best practices on standards and qualifications.
- 1.2 A copy of the ASEAN Mutual Recognition Arrangement on Engineering Services, which was signed on 9 Dec 2005, is available at ASEAN Web Site, at: <a href="http://www.aseansec.org/18009.htm">http://www.aseansec.org/18009.htm</a>

#### 2 **ASEAN Chartered Professional Engineer (ACPE)**

- 2.1 Under the MRA, a professional engineer or practitioner who holds the nationality of an ASEAN Member Country and who possesses qualifications and experience that complies with the requirements specified in Part B of this Assessment Statement may apply to be placed on the ASEAN Chartered Professional Engineers Register (ACPER) and accorded the title of ASEAN Chartered Professional Engineer (ACPE).
- 2.2 The Professional Regulatory Authority of each participating ASEAN Country will authorise a Monitoring Committee (MC) to receive and process applications from its professional engineers or practitioners for registration as ACPE and to maintain the ASEAN Chartered Professional Engineers Register (ACPER). In the case of Singapore, details of the Professional Regulatory Authority and Monitoring Committee are in Part A of this Assessment Statement.

#### 3 Registered Foreign Professional Engineer (RFPE)

3.1 An ACPE who wishes to provide professional engineering services in another participating ASEAN Country shall be eligible to apply to the Professional Regulatory Authority (PRA) of a host participating ASEAN Country to be registered as a Registered Foreign Professional Engineer (RFPE). A Registered Foreign Professional Engineer (RFPE) will be permitted to work in collaboration with designated Professional Engineers in the said host country, but subject to domestic laws and

regulations and where applicable, not making submissions to statutory authorities of the host country.

## 4 Privilege and obligation of a Registered Foreign Professional Engineer (RFPE)

- 4.1 A Registered Foreign Professional Engineer (RFPE) shall not be eligible to work in independent practice in the host country, unless specifically permitted by Professional Regulatory Authority (PRA) of a host participating ASEAN Country. As the Professional Regulatory Authority (PRA) of a host participating ASEAN Country have statutory responsibility to register and/or license a practitioner so as to protect the health, safety, environment, and welfare of the community within its jurisdiction, it may require a Registered Foreign Professional Engineer (RFPE) seeking the right to independent practice to be subjected to some form of supplemental assessment which aims to determine that the Registered Foreign Professional Engineer:
  - a) understands the general principles behind applicable codes of practice and laws in the country;
  - b) has demonstrated a capacity to apply such principles safely and efficiently; and
  - c) is familiar with other special requirements operating within the country.
- 4.2 A Registered Foreign Professional Engineer (RFPE) shall provide engineering services only in the areas of competence as may be recognised and approved by the Professional Regulatory Authority (PRA) of the host participating ASEAN Country, and shall undertake assignments only in the specific discipline or disciplines in which he/she has been registered. He/she shall also be bound by:
  - (a) codes of professional conduct in accordance with the policy on ethics and conduct established and enforced by the country in which he is registered as an ASEAN Chartered Professional Engineer (ACPE); and
  - (b) prevailing laws and regulations of the host participating ASEAN Country in which he is permitted to work as a Registered Foreign Professional Engineer (RFPE).

#### 5 Purpose and operation of Assessment Statement

- 5.1 This Assessment Statement provides a framework for the assessment of professional engineers or practitioners for placement on the ASEAN Chartered Professional Engineers Register (ACPER) by the Singapore Monitoring Committee.
- 5.2 This Assessment Statement shall be reviewed and accepted by the ASEAN Chartered Professional Engineer Coordinating Committee (ACPECC) before the Singapore Monitoring Committee is authorised to operate the ASEAN Chartered Professional Engineers Register (ACPER).

## PART A: THE PROFESSIONAL REGULATORY AUTHORITY AND MONITORING COMMITTEE

#### **6** The Professional Regulatory Authority in Singapore

- 6.1 The Professional Engineers Board Singapore is the Professional Regulatory Authority in Singapore.
- 6.2 The Professional Engineers Board (PEB) is a statutory body that administers the Professional Engineers Act (PE Act). The PE Act (a copy of which is at: <a href="http://www.peb.gov.sg">http://www.peb.gov.sg</a>) is an Act of Parliament that provides for the registration of professional engineers (PEs), regulates the qualifications and conduct of professional engineers and regulates corporations which supply professional engineering services in Singapore. PEB's mission is to safeguard life, property and welfare of the public by setting high standards for registering and regulating PE. Its main objective of the registration of PEs is to ensure that engineering works that involve public safety and interest are carried out by engineers who are competent.
- 6.3 There are other regulatory authorities who regulate engineering works in prescribed branches of engineering (or disciplines) as specified in the Professional Engineers Act, namely those in the building and construction industry, viz. civil, electrical and mechanical engineering. These regulatory authorities require the design of professional engineering works in these prescribed branches/disciplines to be certified by qualified persons who must be registered with the PEB as Professional Engineers.
- 6.4 For practitioners carrying out engineering works which are not in the prescribed branches/disciplines, registration with the PEB as Professional Engineers will not be necessary. For practitioners engaged in these non-prescribed branches <sup>1</sup> of engineering, the PEB has recognised and authorised the Singapore Monitoring Committee (MC), pursuant to Article 4.2.2 and item 1.2 of Appendix II of the MRA, as the competent and responsible body to exercise the functions to assess and certify the qualification and practical experience of practitioners, and to register them as being technically, and morally qualified to undertake independent professional engineering practice (in these non-prescribed branches of engineering) for the purposes of registration as ASEAN Chartered Professional Engineer (ACPE).

<sup>&</sup>lt;sup>1</sup> For the purpose of this Assessment Statement, "non-prescribed branches" refers to those branches or disciplines of engineering which are not prescribed under section 10(8) of the Professional Engineers Act.

#### 7 The Monitoring Committee in Singapore

- 7.1 The Singapore Monitoring Committee (MC) is established by the PEB as the competent body to exercise the functions, on behalf of PEB, to develop, process and maintain an ASEAN Chartered Professional Engineers Register (ACPER) in Singapore.
- 7.2 The MC comprises of the President of the PEB, who shall be the chair of the MC, and members who are appointed by the PEB. Names of members of MC are in Annex 1.
- 7.3 The contact person is:

Registrar, Professional Engineers Board Singapore 52 Jurong Gateway Road #07-03 Singapore 608550

Tel: 63342310 Fax: 6334 2347

Website: <a href="http://www.peb.gov.sg">http://www.peb.gov.sg</a> e-mail: registrar@peb.gov.sg

#### **8** Roles of the Monitoring Committee (MC)

- 8.1 In assessing compliance with the qualifications and experience set out in the ASEAN Mutual Recognition Arrangement on Engineering Services for registration as an ASEAN Chartered Professional Engineers, the MC shall adhere to the criteria and procedures in this Assessment Statement.
- 8.2 The MC shall also undertake to ensure that all ASEAN Chartered Professional Engineers (ACPEs) on its ASEAN Chartered Professional Engineers Register (ACPER):
  - a) comply fully with the requirements specified in the MRA; and
  - b) provide evidence when apply for renewal of their registration that they have complied with the Continuing Professional Development (CPD) at a level prescribed in this Assessment Statement.

#### 9 Authorisation to work as Registered Foreign Professional Engineers

- 9.1 Applications by an ASEAN Chartered Professional Engineers (ACPE) from another participating ASEAN Country to work as a Registered Foreign Professional Engineer (RFPE) in Singapore shall be made to the PEB. Upon acceptance and payment of a prescribed fee, the Registered Foreign Professional Engineer (RFPE) will be permitted by the PEB to work in collaboration with designated local Professional Engineers. The Registered Foreign Professional Engineer (RFPE) will not be eligible to work in independent practice to certify engineering works which is required by any written law to be signed by a professional engineer or qualified person for the purposes of submission to regulatory authorities unless he is registered as a professional engineer in accordance with the Professional Engineers Act by PEB.
- 9.2 PEB shall monitor and assess the professional practice of Registered Foreign Professional Engineers (RFPEs) to ensure compliance with the MRA. The PEB may prepare rules, which shall not contradict or modify any of the provisions in the MRA, for the purposes of maintaining high standards of professional and ethical practice in engineering.

#### PART B: ASSESSMENT MECHANISMS

## 10 Requirements for registration as ASEAN Chartered Professional Engineer (ACPE)

- 10.1 A professional engineer or practitioner who meets the following qualifications, practical experience and conditions is eligible for registration as an ASEAN Chartered Professional Engineer (ACPE):
  - a) completed an accredited or recognised engineering programme;
  - b) been assessed as eligible for independent practice;
  - c) possesses a minimum of seven years of practical experience since graduation;
  - d) has spent at least two years in responsible charge of significant engineering work;
  - e) complied with the Continuing Professional Development (CPD) policy at a satisfactory level; and
  - f) agrees to be bound by code of professional conduct and ethics.
- 10.2 Details of each of the above qualifications, practical experience and conditions are described in the ensuing paragraphs.
- 10.3 An application for registration as an ASEAN Chartered Professional Engineer (ACPE) shall be made in the format and form prescribed by PEB.

#### 11 Completion of an accredited or recognised engineering programme

- 11.1 An applicant for registration with the MC as an ASEAN Chartered Professional Engineer (ACPE) is required to possess one of the following qualifications:
  - a) a Degree of Bachelor of Engineering from the National University of Singapore or the Nanyang Technological University or their preceding institutions;
  - b) an engineering degree that is accredited by the PEB and listed in the Professional Engineers (Approved Qualifications) Notification (a copy of which is at: http://www.peb.gov.sg/);
  - c) an engineering degree accredited or recognised by the Engineering Accreditation Board (EAB) of The Institution of Engineers Singapore (details of which is at: <a href="http://www.ies.org.sg/eab.asp">http://www.ies.org.sg/eab.asp</a>);
  - d) such other degree or qualifications which had been assessed and recognised by the PEB as substantially equivalent to an accredited engineering degree to be entitled to registration under the Professional Engineers Act as a professional engineer; or
  - e) a 4-year bachelor degree (or equivalent) in engineering in a non-prescribed branch of engineering that is accredited by an organisation holding full membership and operating in accordance with the terms of the Washington Accord.

#### 12 Eligibility for Independent Practice

- 12.1 Assessment of eligibility for independent practice is determined through any one of the following manners:
  - a) being registered as a professional engineer by the PEB and possession of a valid practising certificate issued by the PEB under section 18<sup>2</sup> of the Professional Engineers Act. The requirements and application processes for registration as a professional engineer (in prescribed branches of engineering) by the PEB are provided in the Professional Engineers Act and Rules (a copy of which is at PEB's web site); or
  - b) possession of a registration certificate issued by the MC, in the case of engineering practice in non-prescribed branches of engineering. The MC shall assess the qualification and practical experience and determine if he/she is technically and morally qualified to undertake independent professional engineering practice before issuing the registration certificate. The requirements and application processes for registration (in non-prescribed branches of engineering) by the MC are specified in Attachment 1 of this Assessment Statement.

## 13 Attainment of a minimum of seven years of practical experience since graduation

- 13.1 A professional engineer or practitioner is eligible for registration as an ASEAN Chartered Professional Engineer (ACPE) if he/she has at least 7 years of relevant practical work experience after completing the accredited or recognised engineering programme. Assessment of practical work experience shall be carried out through:
  - a) submission of a report describing the type, significance and level of responsibility of the practical engineering work experience attained over a period of at least 7 years since graduation. The report must demonstrate that the candidate has engaged in professional practice which, directly or indirectly, calls upon his engineering knowledge, skills, experience and judgment, and has a significant influence on the technical direction of engineering projects or programs; and
  - b) a professional interview to review the practical work experience claimed and assess the relevance and adequacy for registration.
- The report on practical engineering work experience attained over a period of at least 7 years since graduation shall be submitted to the MC; except that if the report had earlier been submitted to the PEB (pursuant to the application for registration as a professional engineer with the PEB), the said report could be referred to by the MC.

<sup>&</sup>lt;sup>2</sup> Section 18 of the Professional Engineers Act stipulates: *Practising certificates*.

<sup>18(1)</sup> Where a registered professional engineer desires to engage in professional engineering work in Singapore after 31st December of any year, he shall, not later than 1st December of that year, apply in the prescribed form and manner for a practising certificate authorising him in the ensuing year to engage in professional engineering work within the branch of engineering indicated in the register of professional engineers as the branch of engineering in which he is qualified to practise.

- 13.3 The MC will arrange for the professional interview to be conducted; except that if the PEB had carried out a professional interview to assess the practical engineering work experience attained over a period of at least 7 years since graduation, no further professional interview needs to be conducted by the MC.
- 13.4 The professional interview shall be conducted by a panel of at least 2 senior professional engineers. During the interview, the candidate must be prepared to answer questions on knowledge of engineering processes and management, understanding of investigation, planning, design, construction, manufacture, operation, maintenance and research (where relevant to his field of work experience), and the Professional Engineers (Code of Professional Conduct and Ethics) Rules which is administered by PEB.

Acceptable engineering practical experience includes design, construction supervision, workshop or other engineering experience such as technical, economic and administrative factors affecting engineering works.

## 14 Completion of at least 2 years in responsible charge of significant engineering work

- 14.1 A professional engineer or practitioner should have spent at least 2 years in responsible charge of significant engineering work and this period could be within the course of the practical work experience since graduation. Assessment will be carried out based on a report to be submitted by the professional engineer or practitioner to the MC.
- 14.2 Responsible charge of significant engineering work would be assessed as being equivalent to any one of the following situations:
  - i) planned, designed and implemented a complete engineering project;
  - ii) undertaken a substantial part of engineering project while understanding the total project concept;
  - iii) undertaken a project that requires multi-disciplinary, complex or novel work responsibility.

Examples of these situations are given in Part C of this Assessment Statement.

#### 15 Maintenance of Continuing Professional Development (CPD)

- 15.1 Every ASEAN Chartered Professional Engineer (ACPE) is required to engage in CPD to the extent that meets the prevailing norms prescribed by the PEB for the grant of an annual practising certificate under the Professional Engineers Act.
- 15.2 The objectives of PEB's CPD programme is to reinforce the need for lifelong learning and to provide a framework through which professional engineers could systematically maintain and enhance competency to do a job in their area of expertise. PEB's requirement on CPD is attainment of a minimum of 40 professional development units (PDUs) over a one-year renewal qualifying period, of which 20 PDUs must be in structured activities. The requirements and determination of PDUs

- for the grant of annual practising certificate to professional engineers under PEB's mandatory CPD programme is at: <a href="http://www.peb.gov.sg">http://www.peb.gov.sg</a>.
- 15.3 Every ASEAN Chartered Professional Engineer (ACPE) shall be required to submit evidence on compliance with the CPD requirement. The following are acceptable evidence of participation in Continuing Professional Development:
  - a) grant of an annual practising certificate by the PEB; or
  - b) an annual declaration by the ASEAN Chartered Professional Engineer (ACPE) showing participation in CPD in the format prescribed in Part C of this Assessment Statement.

#### 16 Compliance with Code of Professional Conduct and Ethics

- All professional engineers who are registered with the PEB are bound by the Professional Engineers (Code of Professional Conduct and Ethics) Rules, a copy of which is at: <a href="http://www.peb.gov.sg">http://www.peb.gov.sg</a>. The MC will also require all practitioners who are registered on the ASEAN Chartered Professional Engineer Register (ACPER) to be bound by the same Code of Professional Conduct and Ethics Rules.
- 16.2 Every ASEAN Chartered Professional Engineer will be held individually accountable for his/her actions taken in their professional work. In his/her practice of engineering, he/she shall not have any record of serious violation on technical, professional or ethical standards, either in Singapore or elsewhere.
- 16.3 Every ASEAN Chartered Professional Engineer is bound by the Code of Professional Conduct and Ethics Rules to practice only in areas which they are competent in.

#### 17 Keeping of records for continuing mutual monitoring

- 17.1 In order to facilitate mutual monitoring, verification of operations of the procedures of participating ASEAN Member Countries and information exchange, the MC shall keep a set of all successful applications for registration on ASEAN Chartered Professional Engineer Register (ACPER), which shall include:
  - a) a copy of the report describing the practical engineering work experience attained over a period of at least 7 years since graduation;
  - b) a report describing the completion significant engineering work in which professional engineer or practitioner was in responsible charge of; and
  - c) evidence of participation in CPD programme.
- 17.2 The MC will carry out annual random audits of at least 5% of the records in the ASEAN Chartered Professional Engineer Register (ACPER) to determine:
  - a) declarations of participation in CPD; and
  - b) continued compliance with the conditions of registration.

#### PART C: REGISTRATION PROCESS

#### 18 Guide to Application for Registration as ACPE

#### 18.1 General

This section describes the procedures involved in application for and renewal of registration with the MC as ASEAN Chartered Professional Engineers (ACPEs).

#### 18.2 **Application process**

- (a) Application for registration shall be made on the prescribed application form and submitted to the MC. The type of documents to be submitted, initial registration fee, renewal fee, and where the application is to be submitted are listed in the application form.
- (b) The MC will appoint an Assessment Panel to review and assess the application.
- (c) Applicants will be informed of the decision by the MC in writing.
- (d) A certificate of registration will be issued to successful applicant. The term of registration shall be one year from the date of registration. Registration is renewal on a yearly basis.

#### 18.3 **Assessment Panels**

- (a) The MC will appoint Assessment Panels each comprising a Lead Assessor and 2 Assessors who are senior and experienced registered professional engineers in the appropriate discipline to review the applications, and carry out professional interviews to assess suitability for registration on ACPE Register. The Assessment Panels will make recommendations to the MC on whether a candidate should be place on ACPE Register.
- (b) Assessors will be appointed based on the following criteria:
  - either registered professional engineers or practitioners registered by the MC (in non-prescribed branches of engineering);
  - practising in the same field of engineering as the candidates to be assessed;
  - possess more than 10 years of practical experience as registered professional engineers or practitioners.
- (c) For an applicant who is a registered professional engineer, the assessment will be divided into two stages. The Assessment Panel will consider the primary assessment already conducted by the PEB when the candidate applied for and obtained registration as a professional engineer. The Assessment Panel will review whether the requirements in Part B have been satisfactorily assessed by

the PEB in the primary assessment, and if not, secondary assessment will be carried out by the Assessment Panel. A professional interview may be conducted by the Assessment Panel if necessary.

#### 18.4 **Professional Interview**

(a) The Assessment Panel may conduct a professional interview to assess the practical experience in engineering. If an interview is necessary, the MC will inform the applicant of the date/time and venue. However, the MC may waive the interview if a prior assessment had already been carried out by the PEB during the process of registration as a professional engineer with the PEB.

#### 18.5 Assessment Report and Decision

- (a) Assessment Panels will prepare and submit its recommendations to the MC. The MC will check to ensure that there is no discrepancy and inadequacy in the assessment procedures.
- (b) The MC will consider the recommendations of Assessment Panels and a decision by the MC to register an applicant will require a positive vote from more than 50% of the committee members.

#### 18.6 **Notice of the Results**

The MC will inform all candidates of the results of its assessment, including providing reasons for failure where applicable.

#### 18.7 Availability of Assessment Report

The MC will ensure that documents containing information on its assessment of applicants for registration on the ASEAN Chartered Professional Engineers Register will be made available when requested by the ASEAN Chartered Professional Engineer Coordinating Committee (ACPECC) for purposes of review as required under the MRA.

## ANNEX 1: MEMBERS OF THE MONITORING COMMITTEE, SINGAPORE

Members of the Monitoring Committee as at 22 Feb 2024 are:

#### Chairman:

Er. Lim Peng Hong President, Professional Engineers Board

#### Members:

Er. Kng Meng Hwee

Er. Chan Ewe Jin

Er. Pong Mew Lan Marina

Er. Teo Yann

Er. Foo Siang Jeok Registrar, Professional Engineers Board

#### Secretary and Contact Person:

Registrar, Professional Engineers Board Singapore 52 Jurong Gateway Road #07-03

Singapore 608550 Tel: 63342310 Fax: 6334 2347

Website: <a href="http://www.peb.gov.sg">http://www.peb.gov.sg</a> e-mail: registrar@peb.gov.sg

#### ATTACHMENT 1

## REQUIREMENTS FOR REGISTRATION WITH THE MONITORING COMMITTEE (IN NON-PRESCRIBED BRANCHES OF ENGINEERING)

#### **PART A**

#### Prior registration as a professional engineer with the PEB

- An applicant who had previously been registered as a professional engineer with the PEB in a non-prescribed branch of engineering and who had not had his/her registration cancelled as a result of a disciplinary inquiry may apply for registration with the MC as a practitioner in that non-prescribed branch of engineering.
- Any other applicants who wish to apply for registration with the MC as a practitioner in a non-prescribed branch of engineering shall meet the requirements in Part B.

#### **PART B**

#### Requirements on academic qualification

- An applicant for registration with the MC as a practitioner in a non-prescribed branch of engineering is required to possess any of the following qualifications:
  - (a) an accredited or recognised engineering programme listed in paragraph 11.1; or
  - (b) any degree or qualification listed in Attachment 2.

#### Requirements on practical experience

- An applicant for registration with the MC as a practitioner in a non-prescribed branch of engineering should have acquired not less than 4 years of relevant practical experience in such professional engineering work in the non-prescribed branch of engineering and at such level of responsibility as to be sufficiently competent for registration.
- Where the applicant is engaged in full-time teaching or research work, such relevant practical experience for a period of not less than 6 years in the non-prescribed branch of engineering may be acceptable to the MC.
- A comprehensive report of professional engineering training and experience shall be submitted as proof of applicant's practical experience. The report shall include details of the duration and a description of the practical experience, as detailed below:
  - (a) the report should fully describe the professional engineering training and experience since graduation. The report, which shall be about 2,000 words, must not be a mere inventory of work prepared and executed but must describe the tasks

- on which an applicant has been employed, whether in investigation, planning, design, construction, manufacture or research;
- (b) the report shall include detailed accounts of projects and their costs/value carried out in chronological sequence and the applicant's degree of responsibility and precise position occupied. He shall enlarge on any special problems encountered, and on areas which he has specialised or obtained exceptionally good experience.
- 7 The MC may, with a view to determining the nature of an applicant's practical experience, conduct a professional interview with the applicant.
- 8 The MC will appoint an Assessment Panel for the purpose of ascertaining the attributes gained in practical experience in engineering. The interview will generally be based on the applicant's Report of Experience and the documents submitted. The main purposes of the professional interview is to assess:
  - (a) the nature and duration of his practical engineering experience;
  - (b) the applicant's ability to plan, design and supervise the construction/operation of engineering work which shall ensure safety of life and safeguarding of public health or property;
  - (c) the applicant's ability to carry out the professional duties effectively; and
  - (d) ability to express his/her ideas.
- 9 The applicant may also be required by the Assessment Panel to:
  - (a) submit drawings, calculations, and/or other documents duly certified by his superior or employer;
  - (b) part of a feasibility study or a technical report for an engineering project, or a functional and economic comparison of designs for an engineering system;
  - (c) a report incorporating research details and application of his research work in practice, where applicable. The report may be illustrated by drawings and must describe work actually carried out by the applicant; or
  - (d) write an essay on a subject or subjects selected by the Assessment Panel if it is considered necessary by the Panel.

#### Other requirements

10 The applicant should also satisfy the MC as to his character and reputation, and should submit certificate of good conduct from 2 referees.

#### **ATTACHMENT 2**

## LIST OF ACCEPTABLE ACADEMIC QUALIFICATIONS FOR REGISTRATION WITH THE MONITORING COMMITTEE AS A PRACTITIONER FOR INDEPENDENT PROFESSIONAL PRACTICE IN A NON-PRESCRIBED BRANCH OF ENGINEERING

#### PART I

The qualifications specified in the third column of this Part I shall be in respect of the non-prescribed branch of engineering specified in the fourth column.

First column	Second column	Third column	Fourth column
Country	University, College or Institution	Qualification	Branch of Engineering
GERMANY	Rheinisch-Wesfatlische Technische Horchschule Aachen	Dipl-Ing	Production
	Technische Universitat Berlin	Dipl-Ing	Industrial Production
	Technische Universitat Darmstadt	Dipl-Ing	Industrial
	Technische Universitat Munchen	Dipl-Ing	Industrial Production
GERMANY	Technische Universitat Hamburg-Harburg	Dipl-Ing	Industrial Marine (Specialisation in Maritime & Mechanical Engineering) Maritime Production Production/Industrial
HOLLAND	Technische Universiteit Delft	Ingenier (Ir)	Aerospace Marine

Country	University, College or Institution	Qualification	Branch of Engineering
SINGAPORE	National University of Singapore	BEng	Bioengineering Computer Engineering Environmental Industrial & Systems
		B. Tech	Electronic Manufacturing
	Nanyang Technological University	BEng	Bioengineering Computer Engineering Environmental Materials Engineering
		B.App. Science (Hons)	Computer Engineering Materials Engineering
SWEDEN	Chalmers University of Technology	Civilingenjor	Industrial
	The Royal Institute of Technology	Civilingenjor	Materials Science Engineering

#### **PART II**

Degrees in the non-prescribed branches of engineering which are accredited by the following accrediting bodies and recognised by Washington Accord signatories as substantially equivalent in satisfying the academic requirements for the practice of engineering at the professional level:

- (1) Engineers Australia, Australia;
- (2) The Institution of Engineers Bangladesh, Bangladesh
- (3) Engineers Canada, Canada;
- (4) China Association for Science and Technology, China
- (5) Colegio Federado de Ingenieros y de Arquitectos de Costa Rica, Costa Rica
- (6) The Hong Kong Institution of Engineers, Hong Kong China;
- (7) National Board of Accreditation, India;
- (8) Indonesian Accreditation Board for Engineering Education, Indonesia
- (9) Engineers Ireland, Ireland;
- (10) Japan Accreditation Board for Engineering Education, Japan;
- (11) Board of Engineers Malaysia, Malaysia;
- (12) Consejo de Acreditación de la Enseñanza de la Ingeniería, Mexico
- (13) Engineering New Zealand, New Zealand;
- (14) Pakistan Engineering Council, Pakistan
- (15) Instituto de Calidad y Acreditacion de Programas de Computacion, Ingenieria y Tecnologia, Peru
- (16) Philippine Technological Council, Philippines
- (17) Association for Engineering Education of Russia, Russia
- (18) Engineering Council of South Africa, South Africa;
- (19) Accreditation Board for Engineering Education of Korea, South Korea;
- (20) Institution of Engineers Sri Lanka, Sri Lanka
- (21) Institute of Engineering Education Taiwan, Taiwan;
- (22) Association for Evaluation and Accreditation of Engineering Programs, Turkey
- (23) Engineering Council United Kingdom, United Kingdom;
- (24) Accreditation Board for Engineering and Technology, United States of America.

#### **PART III**

Degrees in the non-prescribed branches of engineering awarded under the Accredited Engineering Programmes which are based on the evaluation and acceptance of the Commission des titres d'ingenieur, France.