



# **COUNCIL OF ENGINEERS OF THAILAND**



## **ASEAN CHARTERED PROFESSIONAL ENGINEER ASSESSMENT STATEMENT**

March 2010



# ASSESSMENT STATEMENT ASEAN Chartered Professional Engineer

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## **ACRONYM**

- ACPE** : ASEAN Chartered Professional Engineer
- ACPER** : ASEAN Chartered Professional Engineer Register
- ACPECC** : ASEAN Chartered Professional Engineer Coordinating Committee
- BEA** : Board of Engineering Accreditation
- COE** : Council of Engineers of Thailand
- MC** : Monitoring Committee
- MRA** : ASEAN Mutual Recognition Arrangement on Engineering Services
- PRA** : Professional Regulatory Authority
- RFPE** : Registered Foreign Professional Engineer



## COUNCIL OF ENGINEERS OF THAILAND

### ASSESSMENT STATEMENT

### ASEAN CHARTERED PROFESSIONAL ENGINEER

#### INTRODUCTION

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

The Governments of Member Countries of the Association of South East Asian Nations as “ASEAN”; Brunei Darussalam, the Kingdom of Cambodia, the Republic of Indonesia, Lao People’s Democratic Republic, Malaysia, the Union of Myanmar, the Republic of Philippines, the Republic of Singapore, the Kingdom of Thailand and the Socialist Republic of Viet Nam, have agreed on the ASEAN Mutual Recognition Arrangement (**MRA**) on Engineering Services with the following objectives;

- a) To facilitate mobility of engineering services professionals; and
- b) To exchange information in order to promote adoption of best practices on standards and qualifications.

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

2.1 A professional engineer who holds the nationality of an ASEAN Member Country and who possesses qualifications and experiences to comply with the requirements specified in Part B of this Assessment Statement may apply to be placed on the ASEAN Chartered Professional Engineer Register (**ACPER**) and accorded the title of ASEAN Chartered Professional Engineer (**ACPE**).

2.2 Under the MRA, the Professional Regulatory Authority (**PRA**) of each participating ASEAN Country shall authorize a Monitoring Committee (**MC**) to receive and process application from its professional engineers for registration as **ACPE**, and to maintain the **ACPER**. The **PRA** and the **MC** are shown in Part A of the 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 **PRA** of a host participating ASEAN Country to be registered as a Registered Foreign Professional Engineer (**RFPE**).

3.2 A **RFPE** will be permitted to work, not in independent practice, but in collaboration with designated Professional Engineers in the said host country, and subject to domestic laws and regulations and where applicable, not making submissions to statutory authorities of the host country.

#### **4. Purpose and Operation of Assessment Statement**

4.1 The Assessment Statement provides a framework for the assessment of professional engineers for placement on the **ACPER** by the Monitoring Committee, Thailand.

4.2 This Assessment Statement shall be reviewed and accepted by the ASEAN Chartered Professional Engineer Coordinating Committee (**ACPECC**) before the Monitoring Committee, Thailand is authorized to operate the **ACPER**.

#### **5. Privilege and Obligation of a Registered Foreign Professional Engineer (RFPE)**

5.1 A **RFPE** shall not be eligible to work in independent practice in the host country, unless specifically permitted by **PRA** of a host participating ASEAN Country. As the **PRA** 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 **RFPE** seeking the right to independent practice to be subjected to some form of supplemental assessment which aims to determine that the **RFPE**:

- a) fully understands the general principles behind applicable codes of practice and laws in the host country;
- b) has demonstrated a capacity to apply such principles safely and efficiently; and
- c) is familiar with other special requirements operating within the host country.

5.2 A **RFPE** shall provide engineering services only in the areas of competence as may be recognized and approved by the **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 bounded by:

- a) codes of professional conduct in accordance with the policy on ethics and conduct established and enforced by the host country in which he/she is registered as an **ACPE**; and
- b) prevailing laws and regulations of the host participating ASEAN Country in which he/she is permitted to work as a **RFPE**.

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

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### **6. Professional Regulatory Authority (PRA)**

6.1 The Council of Engineers of Thailand (**COE**) is the Professional Regulatory Authority (**PRA**) in Thailand.

6.2 The **COE** is a statutory body under the Engineers Act B.E. 2542 ([www.coe.or.th](http://www.coe.or.th)). The Act provides for the registration of professional engineers, regulates the qualifications and conduct of the professional engineers and regulates corporations which supply professional engineering services in Thailand. **COE's** obligation is to safeguard life, property and welfare of the public by setting high standards for registering and regulating professional engineer. Its main objective of the registration of professional engineers is to ensure that engineering works that involve public safety and interest are carried out by engineers who are competent.

6.3 There are also other regulatory authorities who regulate engineering works that require to be certified by qualified persons who must be registered with the **COE** as Professional Engineers.

6.4 The **COE** has recognized the **MRA** on Engineering Services and appointed the **MC** to operate the **ACPER**.

### **7. Engineering Disciplines**

7.1 According to the Engineers Act B.E. 2542, COE has regulated engineering disciplines in

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Industrial Engineering
- Mining Engineering
- Chemical Engineering
- Environmental Engineering

The regulated disciplines need registered engineers to acquire qualification and practical experience to ensure the competency, the responsibility to safeguard life and property, and the consciousness on public safety and environment.

7.2 For practitioners carrying out engineering works which are not in the prescribed disciplines, registration with the **COE** as professional engineer will not be necessary. For practitioners engaged in these non-prescribed disciplines of engineering, the **COE** has recognized and authorized the **MC**, as the competent and responsible body to exercise the function 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 for the purpose of registration as **ACPE**.

### **8. The Monitoring Committee (MC)**

8.1 The Monitoring Committee (**MC**) is appointed by the **COE**, and operates under the Engineers Act B.E. 2542. The committee members shall be nominated from various professional engineering institutions, such as :

- a) The Council of Engineers (COE)
- b) The Engineering Institute of Thailand (EIT)

- c) The Consulting Engineers Association of Thailand (CEAT)
- d) The Thai Contractors Association (TCA)
- e) The Federation of Thai Industries (FTI)

8.2 The **MC** will be appointed by **COE** . Term of the service conforms to the term of the **COE**.

The current members of MC are shown in the Attachment 1 .

### **9. Roles of the Monitoring Committee**

9.1 The Monitoring Committee (**MC**) has taken specific responsibilities for the development and maintenance of the **ACPER** as set out in the **MRA** on Engineering Services.

9.2 In assessing compliance with the qualifications and practical experience for registration as an **ACPE**, the **MC** shall adhere to the criteria and procedures in this Assessment Statement.

9.3 The **MC** shall also undertake to ensure that all **ACPEs** on its **ACPER**.

- a) comply fully with the requirements specified in the ASEAN **MRA** on Engineering Services; and
- b) provide evidence(s) 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.

### **10. Authorization to Work as Registered Foreign Professional Engineers (RFPE)**

10.1 Application by an **ACPE** from another participating ASEAN Country to work as a **RFPE** in Thailand shall be made to the **COE**. Upon acceptance and payment of a prescribed fee, the **RFPE** will be permitted by the **COE** to work in collaboration with designated local licensed Professional Engineers. The **RFPE** will not be eligible to work in independent practice to certify engineering works which is required by Thai laws and regulations to be signed by a professional engineer(s) or qualified person(s) for the purposes of submission to regulatory authorities unless he/she is registered as a professional engineer in accordance with the Thai Engineer Act B.E. 2542.

10.2 The **COE** shall monitor and assess the professional practice of the **RFPEs** to ensure compliance with the **MRA**. The **COE** may prepare rules which shall not contradict nor modify any of the provisions in the **MRA**, for the purposes of maintaining high standards of professional conduct and ethical practice in engineering.

10.3 The **COE** will notify the **ACPECC** Secretariat promptly in writing when a **RFPE** has contravened the **MRA** or the host country's laws and regulations.

## **PART B: ASSESSMENT MECHANISM**

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### **11. Requirement for Registration as ASEAN Chartered Professional Engineer (ACPE)**

11.1 A professional engineer who meets the following qualifications, practical experience and conditions is eligible for registration as an **ACPE**:

- a) completed an accredited or recognized engineering program set by the Board of Engineering Accreditation (**BEA**);
- b) possess a current and valid professional registration or licensing certificate to practice engineering works in Thailand by the **COE**;
- c) acquired practical and diversified experience of not less than 7 years after graduation;
- d) has spent at least 2 years in responsible charge of significant engineering works;
- e) complied with Continuing Professional Development (**CPD**) policy at a satisfactory level; and
- f) agrees to be bound by code of professional conduct and ethics.

11.2 An application for registration as an ACPE shall be made in the format prescribed in Attachment 2 of this Assessment Statement.

### **12. Engineering Education Accreditation**

12.1 A graduation program accredited by the Board of Engineering Accreditation (BEA) is considered to have met the academic qualification requirement. The criteria and the procedures for accreditation of engineering programs are provided in Attachment 3 of this Assessment Statement.

12.2 A graduate of a foreign engineering program that is evaluated by the BEA and substantially equivalent to an accredited program is considered to have met the academic qualification requirement. The Council of Engineers (COE) would approve the substantial equivalent evaluation.

### **13. ASEAN Chartered Professional Engineer Assessment**

13.1 A professional engineer is eligible for registration as an **ACPE** if he/she has at least 7 years of relevant practical experience after completing the accredited or recognized engineering program. Assessment of practical work experience shall be carried out through 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, call upon his engineering knowledge, skills, experience and judgement, and has a significant influence on the technical direction of engineering projects.

13.2 A professional engineer should have spent at least 2 years in responsible charge of significant engineering works and this period should be within the course of the practical work experience since graduation.

13.3 Responsible charge of significant engineering work would be assessed as being equivalent to any one of the following situations:

- a) planned, design, and implemented a complete engineering project;
- b) undertaken a substantial part of engineering project while understanding the total project concepts;
- c) undertaken a project that requires multidisciplinary, complex or novel work responsibility.

- 13.4 Assessment will be carried out based on a report to be submitted by the professional engineer to the **MC**
- 13.5 The Assessment Panel is assigned to review the Applicant's practical work experience and responsible charge of significant claimed and to assess the relevance and adequacy for registration.

**14. Audit of ASEAN Chartered Professional Engineer**

- 14.1 An **ACPE** is required to renew the registration every 3 years. The documents submitted for the renewal should contain a current curriculum vitae and records of the **CPD**.
- 14.2 All professional engineers who are registered with the **COE** are bound by the Codes of Professional Conduct and Ethics. The **MC** will also require the Professional Engineers who are registered on the **ACPER** to be bound by the same Codes of Professional Conduct and Ethics.
- 14.3 Every **ACPE** is required to engage in **CPD** conforming to the **COE** registration as described in Attachment 4 of this Assessment Statement.

## **PART C: REGISTRATION PROCESS**

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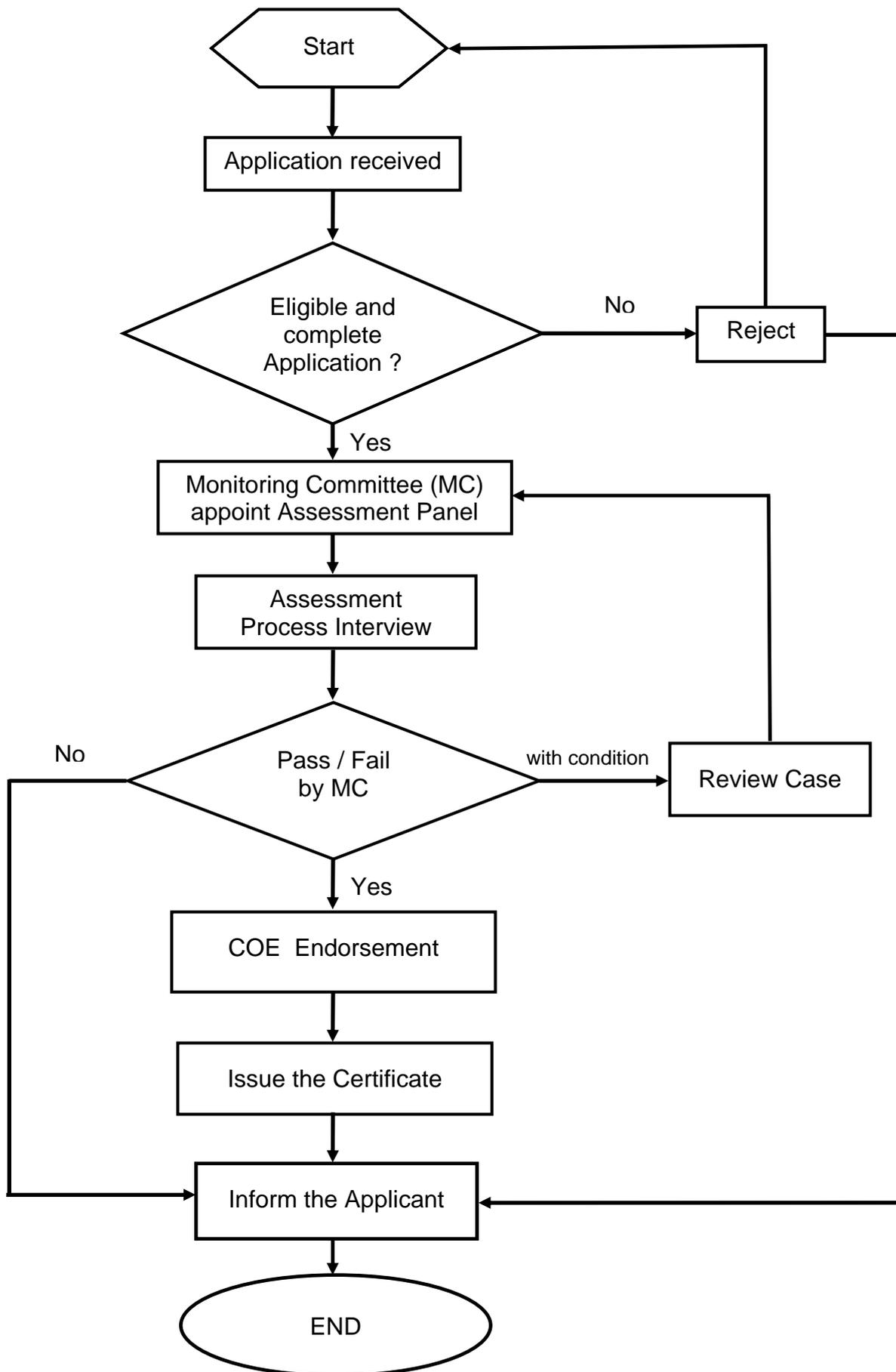
### **15. Registration Procedure**

15.1 This section describes the procedure involved in application for, or renewal of registration as **ACPEs**.

15.2 Application procedure for registration of an **ACPE** should follow the flow chart as shown in Figure 1, which are as follows :

- a) Application for registration shall be submitted, in the application form, to the **MC**. The details of the documents, initial registration fee, renewal fee are shown in the application form.
- b) The **MC** will appoint an Assessment Panel to review and assess the application.
- c) The result(s) of the evaluation shall be informed to the Applicant(s) in writing, soon after the endorsement by the COE.
- d) A certificate of registration will be issued to successful Applicant. The term of registration shall be 3 years from the date of registration, and shall be renewed on a 3 - year basis.

Figure 1 Registration Procedure Flow Chart



## **16. Guide to Application for Registration as ACPE**

- 16.1 A professional engineer who is qualified to apply for registration as **ACPE** shall submit his/her application in the form as shown in Attachment 2, to prescribe academic qualification, professional practice experiences, responsible charge of significant engineering work.
- 16.2 The Applicant who is eligible to practice in specific engineering discipline or in engineering sub-discipline, would be preliminary reviewed for compliance with the licensing and the Professional Conducts and Ethics.
- 16.3 Assessment Panel will be appointed by the **MC**, each comprising a Lead Assessor and 2 Assessors who are Senior Professional Engineers or experienced Professional Engineers in the relevant discipline to review the applications, and carry out professional interviews to assess suitability for registration on **ACPER**. The Assessment Panels will make recommendations to the **MC** on whether a candidate should be placed on **ACPER**.
- 16.4 Professional interview, if necessary, may be conducted by the Assessment Panel to assess the practical experience in engineering. In such case, the **MC** will inform the Applicant of the date, time and venue for the Professional Interview.
- 16.5 Assessment Panel 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. The **MC** will consider the recommendations of Assessment Panel. The decision to register the Applicant as an **ACPE** require majority votes of the **MC**.
- 16.6 The **MC** will ensure that documents containing information on its assessment of the Applicants for registration on the **ACPER** are available when requested by the **ACPECC** for purposes of review as required under the **MRA**.

## Current Monitoring Committee

- |  |          |        |
|--|----------|--------|
| 1. Mr.Rajatin Syamananda               | Chairman | (COE)  |
| 2. Prof.Dr.Thongchai Panswad           | Member   | (COE)  |
| 3. Mr.Precha Sekhararidhi              | Member   | (COE)  |
| 4. Assoc.Prof. Sulee Banjongjit        | Member   | (COE)  |
| 5. Assoc.Prof.Dr.Chairit Satayaprasert | Member   | (COE)  |
| 6. Mr.Supachai Rakpanitmanee           | Member   | (CEAT) |
| 7. Mr.Ruthai Rugrachagarn              | Member   | (TCA)  |
| 8. Prof.Dr.Ekasit Limsuwan             | Member   | (COE)  |

The current contact persons:

Prof. Dr. Ekasit Limsuwan

International Professional Practice, The Council of Engineers (COE)

EIT. Bldg, 487/1 Soi Ramkhamhaeng 39 Bangkok 10310 Thailand

Telephone: 66-2935-6868 Facsimile: 66-2935-6695, 66-2935-6697

E-mail: fceels@eng.chula.ac.th

The alternative contact person:

Asst. Executive Manager, The Council of Engineers (COE)

EIT. Bldg, 487/1 Soi Ramkhamhaeng 39 Bangkok 10310 Thailand

Telephone: 66-2935-6868 Facsimile: 66-2935-6695, 66-2935-6697

E-mail : panadda@coe.or.th



No. ....

**APPLICATION FORM FOR ASEAN CHARTERED PROFESSIONAL ENGINEER (ACPE)**

1. Name ..... Surname ..... Age ..... yrs. Nationality .....
2. License/ Registration No. .... Issued on ..... Expiration date .....
3. Home address .....  
 Province ..... Postcode .....  
 Tel./ Fax ..... e – mail .....
4. Office address .....  
 Province ..... Postcode .....  
 Tel./ Fax ..... e – mail .....
5. Education (Provision of Evidence)
 

5.1	Institute .....	Year .....
5.2	Institute .....	Year .....
5.3	Institute .....	Year .....
5.4	Institute .....	Year .....

I, hereby, certify that the above information is correct.

(Signature) ..... Applicant

Submission date .....

**For Official Use Only**

Date of meeting ..... Result .....

ACPE No ..... Discipline .....

Date of Approval ..... Expiration .....

**Registration Fee Payment** Book No. .... No. ....

Date ..... Amount ..... Baht. ....

..... Cashier

Secretary General

**PROFESSIONAL PRACTICE RECORD**

Item no.	Date/Month/ Year of Practice	Job Position/Company or Firm	Project Name/Description of Works

- Note:**
- 1. The applicant must have experience not less than seven years after graduation.**
  - 2. Enclose together with the application form and the table showing quantity and quality of professional engineering works.**

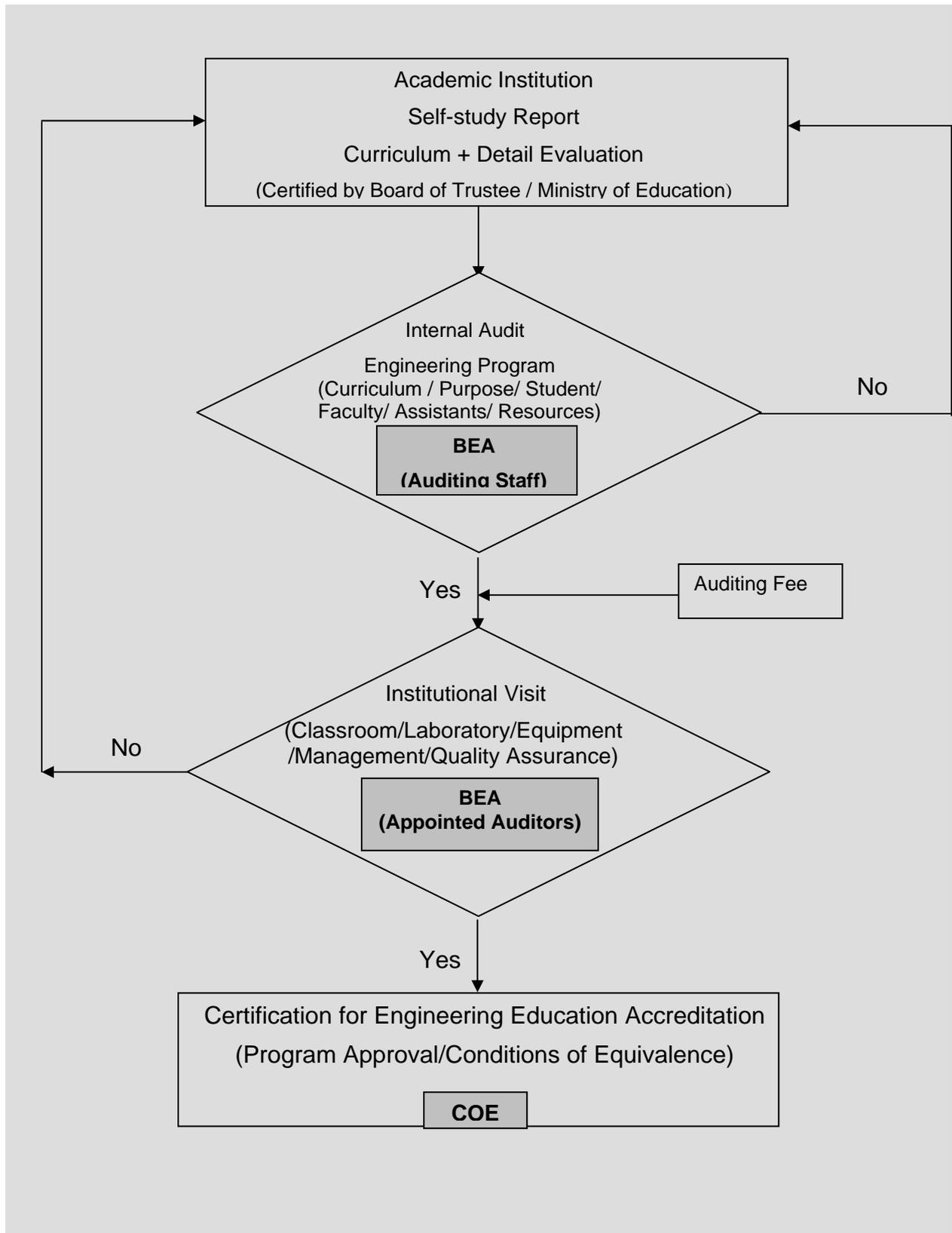
**DETAILS OF AT LEAST TWO - YEAR PROFESSIONAL PRACTICE \***

Name.....License / Registration No.....

(1) Item	(2) Company or Firm /Position	(3) Start and Finish Date	(4) Professional Practice (in accordance to Professional Practice Regulation)	(5) Duty/ Responsible Charge/ Scope of Work	(6) Outcome/ Performance	(7) Certified by	(8) Remarks

\* see article 3.1.3 in MRA on Engineering Services

### Engineering Education Accreditation Procedure



## Continuing Professional Development ( CPD)

The Council of Engineers of Thailand (COE) has set the activities that engineers can take for their continuing professional development (CPD). Those activities are counted as the Professional Development Unit (PDU) and are divided into 8 items as follows:

1. Formal learning
2. Informal learning
3. Seminar, conference and meeting
4. Participation in professional activities
5. Service activities
6. Industry involvement
7. Contribution to knowledge
8. Patents

Different activities however have different weights of score attached to them, see details in the Committee Rules on Continuing Professional Development (CPD) in the Attachment 5

## Committee Rules on Continuing Professional Development (CPD)

### Professional Development Unit ( PDU)

The Council of Engineers of Thailand (COE) has set the activities that engineers can take for their Continuing Professional Development (CPD). We count the activities as the Professional Development Unit ( PDU). The Activities are divided into 8 items as follows:

1. Formal learning
2. Informal learning
3. Seminar, conference and meeting
4. Participation in professional activities
5. Service activities
6. Industry involvement
7. Contribution to knowledge
8. Patents

All of the activities have different weights of score attached to them. The COE has set the score according to the activities as the table below,

Table 1. Activities, the regulation for counting the PDU

No.	Activity	Sub-activity	regulation	weight	
1	<b>Formal learning</b>  Maximum 40 PDU. Minimum attendance time is 80 %. (Lectures and speakers are not required to attend 80 % of formal learning time).	101	Courses taken in the University / College / Institute of Technology (higher than Bachelor's degree).	Count by course hours.	2.0
		102	Training courses with examinations organized by organizations approved by COE.	Pass the examination. Count by course hours.	2.0
				Fail the examination. Count by course hours.	1.5
		103	Training courses approved by COE.	Count by course hours.	1.5
		104	In – house training approved by COE.	Count by course hours.	1.0
105	Other training courses organized by other non-engineering units approved by governmental units.	Count by course hours.	1.0		

No.	Activity		Sub-activity	regulation	weight
2	<b>Informal learning</b> Maximum 20 PDU.	201	Self study with report or activity manual in new work involving high technology.	Count two hours per page of report or activity manual.	1.0
		202	Technical visit.	Count by visiting hours, excluding traveling time.	0.5
3	<b>Participation in seminars, conferences and meetings.</b> Maximum 30 PDU	301	Attending seminars and academic or professional conferences in the country.	Count by the seminar or conference hours.	1.0
		302	Attending meetings as a committee or sub-committee member concerning academic or professional practice in the country.	Count by attending hours.	1.0
		303	Attending international academic or professional seminars or conferences.	Count by the seminar or conference hours.	1.5
		304	Attending international meetings as a committee or sub-committee member concerning academic or professional practice.	Count by attending hours.	1.5
4	<b>Participation in professional activities</b> Maximum 30 PDU	401	Being a member of academic or professional societies accredited by COE.	Count 10 hours per society.	1.0
		402	Being a committee of academic or professional societies accredited by COE. (Must attend a meeting at least 50 % of total number of meetings.)	Count 10 hours per society.	2.0
		403	Being a sub-committee or working group of academic or professional societies accredited by COE. (Must attend a meeting at least 50 % of total number of meetings.)	Count 10 hours per society.	1.5

No.	Activity	Sub-activity	regulation	weight
5	<b>Engineering service activities</b>  Maximum 40 PDU	501 Being various academic committees concerning program of study of universities.	Count by hours of participation.	2.0
		502 Being a member or a committee of a Continuing Professional Development program.	Count 10 hours per program.	2.0
		503 To participate in the process of setting up and inspecting a Continuing Professional Development program	Count by hours of participation	2.0
		504 Consider technical aspects of various engineering works, such as, consider and review ministry acts, standards of industrial products, etc.	Count by working hours	2.0
		505 Being a committee of research projects at Bachelor, Master and Ph.D. levels in other universities where you do not belong.	Bachelor : count 5 hours per project. Master and Ph.D. : count 10 hours per project.	1.0
6	<b>Industry Involvement</b>  Maximum 40 PDU	601 Consultancy services to industrial sector.	Count 10 hours per project.	1.0
		602 Research for industrial sector.	Count 10 hours per project.	2.0

No.	Activity	Sub-activity	regulation	weight
7	<b>Contribution to Knowledge</b>  Maximum 40 PDU	701 Developing the Code of Practice.	Count 5 hours per page for author. Count 2 hours per page for reader.	1.0
		702 Research, presentation, and writing articles in journals with peer review to be published in the country.	Count 5 hours per page of the article. Count 40 hours per book.	1.0
		703 Research, presentation and writing articles in international journals with peer review.	Count 5 hours per page of the article. Count 40 hours per book.	1.5
		704 Research, presentation and writing articles in journals without peer review.	Count 5 hours per page.	0.5
		705 Being a reviewer of articles to be published in the country.	Count 5 hours per page.	1.0
		706 Being a reviewer of articles to be published internationally.	Count 5 hours per page.	1.5
		707 Being a lecturer of training courses with examination.	Count by lecture hours.	2.0
		708 Being a lecturer of training courses without examination.	Count by lecture hours.	1.5
		709 Being a lecturer of seminars and conferences.	Count by lecture hours.	1.0
8	<b>Engineering Patents</b> Maximum 50 PDU	801 Patenting engineering innovations.	Count 40 hours per patent.	1.0