



# **COUNCIL OF ENGINEERS THAILAND**



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

**June 2015**



# 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
- COE** : Council of Engineers, Thailand
- MC** : Monitoring Committee
- MRA** : ASEAN Mutual Recognition Arrangement on Engineering Services
- PRA** : Professional Regulatory Authority
- RFPE** : Registered Foreign Professional Engineer



**Council of Engineers, Thailand**  
**Assessment Statement**  
**ASEAN Chartered Professional Engineer**  
**June 2015**

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## **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, 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 (1999). The Act provides for the registration of professional engineers, regulates the qualifications and conducts 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 is the Competence Assessment Committee of COE. The Monitoring Committee is appointed by the Council Board to operate the ASEAN Chartered Professional Engineer register in Thailand. The committee members shall consist of professional engineers from various engineering institutions designated to principal practice fields.

8.2 The current Monitoring Committee has been appointed by the COE since October 14<sup>th</sup>, 2013. The current members of Monitoring Committee are shown in 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. Requirements for Registration as ASEAN Chartered Professional Engineer (ACPE)

11.1 To perform the professional engineering practices in the regulated disciplines, the law requires that an engineer shall register himself to the Council of Engineers (COE). Therefore, a professional engineer in Thailand is comprehensively implied to an engineer who holds the regulated engineering license. He is eligible to submit application for registration as an **ACPE** with the following qualification as stated in MRA

- a) completed an accredited or recognized engineering programme set by the COE;
- 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 programme accredited by the COE is considered to have met the academic qualification requirement. The criteria and the procedures for accreditation of engineering programmes are provided in Attachment 3 of this Assessment Statement.

12.2 A graduate of a foreign engineering programme that is evaluated by the Engineering Programmes Accreditation Committee and substantially equivalent to an accredited programme 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 programme. 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 year. 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 Each **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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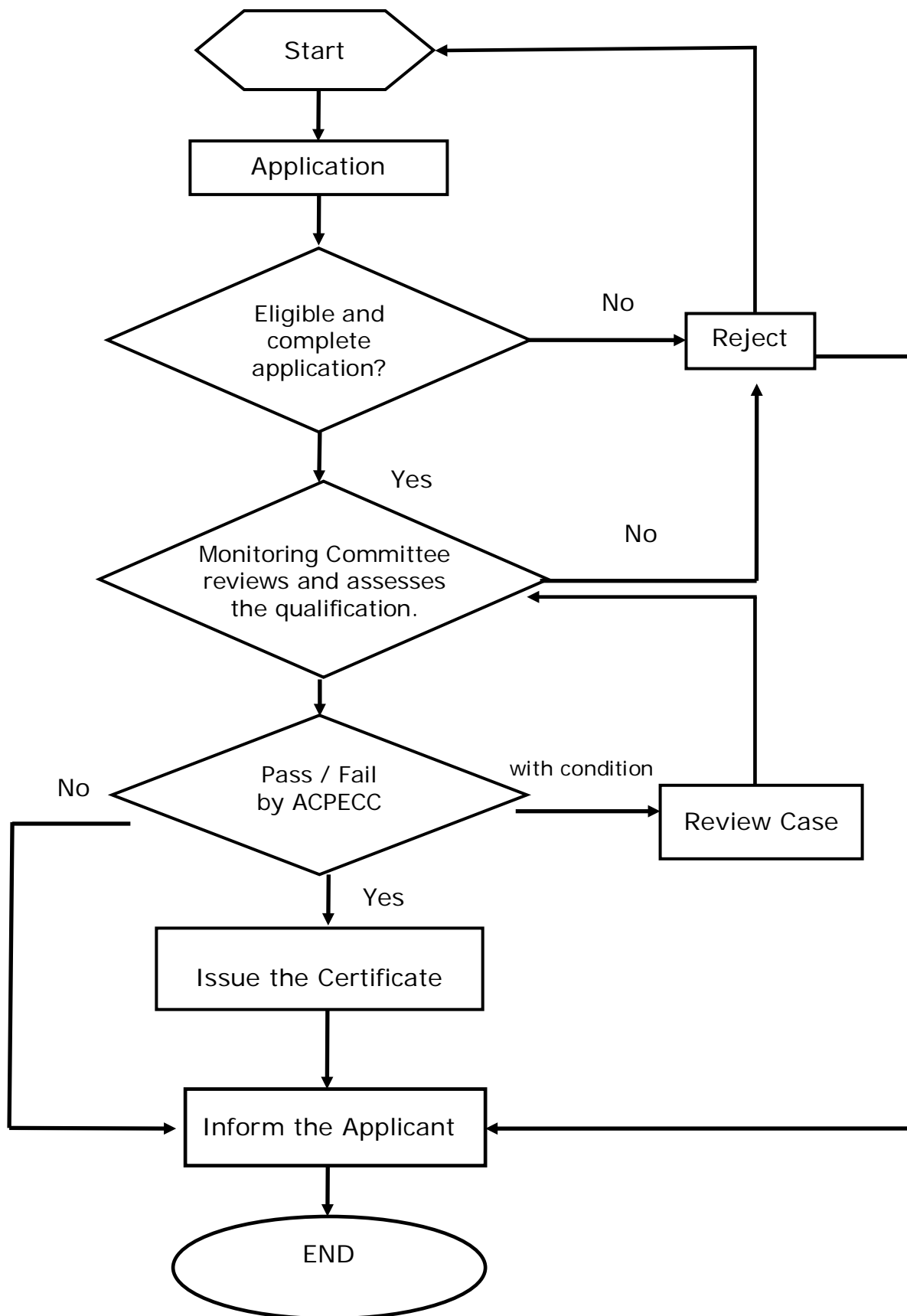
### 15. Registration Procedure

15.1 This section describes the procedure involved in application and renewal of registration as an **ACPE**.

15.2 Application procedure for registration of an **ACPE**, the application should be proceeded as the followings:

- a) Complete the described application form and submit the required documents to the COE.
- b) When the COE has received the completed application; the **MC** will review and assess the qualification.
- c) The achieved applicants will be certified and issued the ACPE certificates by the ASEAN Chartered Professional Engineer Coordinating Committee (ACPECC).
- d) The term of registration shall be 3 years from the date of registration, and shall be renewed on a 3 - year basis.

## Registration Procedure Flow Chart



## **16. Guideline 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 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**.

## **ASEAN Chartered Professional Engineer – Monitoring Committee**

|     |                  |              |          |
|-----|------------------|--------------|----------|
| 1.  | Dr. Karoon       | Chandrangsu  | Chairman |
| 2.  | Mr. Prasong      | Tharachai    | Member   |
| 3.  | Mr. Kecha        | Thirakomen   | Member   |
| 4.  | Mr. Chutchawal   | Kooncumchoo  | Member   |
| 5.  | Mr. Pichaya      | Chantranuwat | Member   |
| 6.  | Prof. Dr. Ekasit | Limsuwan     | Member   |
| 7.  | Mr. Yiem         | Chundprasit  | Member   |
| 8.  | Mr. Rajatin      | Syamananda   | Member   |
| 9.  | Mr. Luachai      | Thongnin     | Member   |
| 10. | Mr. Somsak       | Damronglert  | Member   |
| 11. | Mr. Chakrapong   | U-thasin     | Member   |

### ***The COE contact:***

#### **Ms. Panadda Boonkanjanapanich**

Office Manager

Council of Engineers, Thailand

Address: 487/1 EIT Building 2<sup>nd</sup> FL., Ramkhamhaeng 39,

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Bangkok, Thailand 10310

Email Address: [panadda@coe.or.th](mailto:panadda@coe.or.th)

Website: [www.coe.or.th](http://www.coe.or.th)

### **The contact person:**

#### **Ms. Kanithaaryn Phongkasetchai**

Head of Foreign Affairs Department

Council of Engineers, Thailand

Telephone: (+66) 2-935-6868 Ext. 600

Email Address: [secretary.gen@coe.or.th](mailto:secretary.gen@coe.or.th)

## Application form for registration as an ACPE



Application Form

ASEAN Chartered Professional Engineer (ACPE)



Reg. No. \_\_\_\_\_

Please Affix  
Recent Photo

### 1. Personal Information (as shown on passport)

First Name \_\_\_\_\_ Middle Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Gender ☐ Male ☐ Female Nationality \_\_\_\_\_ Date of Birth (DD/MM/YYYY) \_\_\_\_\_  
 Citizen ID \_\_\_\_\_ Passport No. \_\_\_\_\_ Passport expiry date \_\_\_\_\_  
 Contact Address \_\_\_\_\_  
 Province \_\_\_\_\_ Postcode \_\_\_\_\_ Mobile No. \_\_\_\_\_  
 Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

### 2. Professional Information

Associate Engineer License No. (Discipline) \_\_\_\_\_ Issued date \_\_\_\_\_ Expiry date \_\_\_\_\_  
 Current PE License No. (Discipline) \_\_\_\_\_ Issued date \_\_\_\_\_ Expiry date \_\_\_\_\_  
 Present Company Name \_\_\_\_\_  
 Company Address \_\_\_\_\_  
 Province \_\_\_\_\_ Postcode \_\_\_\_\_ Tel: \_\_\_\_\_  
 Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

### 3. Engineering Education

Undergraduate Degree \_\_\_\_\_ University/Institute \_\_\_\_\_  
 Year of graduation \_\_\_\_\_ Discipline of Engineering \_\_\_\_\_  
 Post Graduate Degree \_\_\_\_\_ University/Institute \_\_\_\_\_  
 Year of graduation \_\_\_\_\_ Discipline of Engineering \_\_\_\_\_

### 4. Discipline for ACPE Regulation

(Please mark only one discipline which you desire to register as an ACPE)

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| <input type="radio"/> Civil         | <input type="radio"/> Mining      |
| <input type="radio"/> Mechanical    | <input type="radio"/> Electrical  |
| <input type="radio"/> Industrial    | <input type="radio"/> Chemical    |
| <input type="radio"/> Environmental | <input type="radio"/> Other _____ |

### 5. Responsible Charge/ Expertise

(Can be more than one if applicable)

- |   |   |
|---|---|
| <input type="radio"/> Consultancy               | <input type="radio"/> Analysis and Design     |
| <input type="radio"/> Project Planning          | <input type="radio"/> Engineering Supervision |
| <input type="radio"/> Investigation             |   |
| <input type="radio"/> Operation and Maintenance |   |

I, the undersigned, apply for the registration as ASEAN Chartered Professional Engineer through the Thailand Monitoring Committee and declare as follows;

- (a) I declare that I have not submitted any other application to the Monitoring Committees of any other ASEAN Member State for registration as ACPE.
- (b) I confirm that all the information I have given in ACPE application form and the enclosed certificates are true.
- (c) I shall be bound by the Professional Engineer Act and the Professional Engineer (Code of Professional Conduct and Ethics) Rules established and enforced by the Council of Engineers, Thailand.
- (d) I shall be bound by ASEAN Mutual Recognition Arrangement (MRA) on Engineering Services and other relevant commitments in the future.

 \_\_\_\_\_  
 Date

 \_\_\_\_\_  
 Signature of Applicant





## Professional Experience

(Please describe the contents and significance of the work, the applicant's role, and the degree of the applicant's responsibilities about 50 words.)

| Work No.          | Starting Date-Ending Date (months) | Position and Name of Organizations | Project Owners/ Clients | Details of Engineering Work |
|-------------------|------------------------------------|------------------------------------|-------------------------|-----------------------------|
|                   |                                    |                                    |                         |                             |
| Sum of Experience |                                    |                                    |                         | Years Months                |

Note: The professional experience should be referred to professional practices record



Reg. No. \_\_\_\_\_

## Professional Practices Record

### Engineering Work Experience

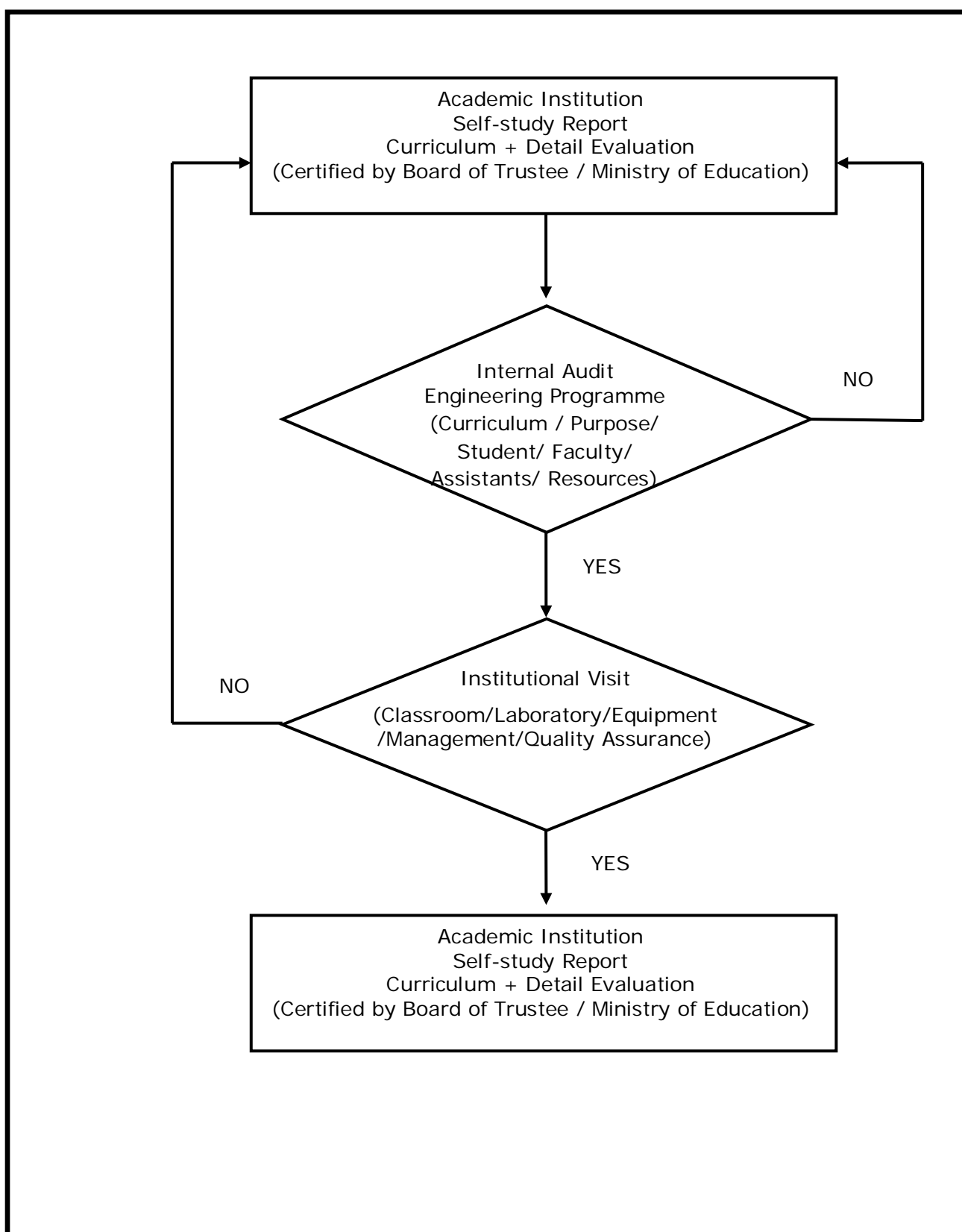
(Please describe in retrospective order, beginning with the most recent one.)

Attesting Witnesses' Column

| Work No.  | Name of Organizations<br>(Position/Title) | Project Owners/<br>Clients | Starting Date<br>Ending Date<br>(months) | Professional Practices | Duty/ Scope of Work | Outcome/ Performance | Signature | Remark |
|---|---|----------------------------|--|------------------------|---------------------|----------------------|-----------|--------|
|   |   |                            |  |                        |                     |                      |           |        |
| Sum of Experience in responsible Charge of Significant Engineering work |   |                            |  |                        |                     |                      | Years     | Months |

Note: 1. The applicant has spent 2 years in responsible charge of significant engineering works.

2. The signor(s) above shall be, in principle, the applicant's direct supervisor(s) or any professional engineer/senior engineer under the applicant has executed his engineering works.

**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

However, different activities have different weights of score, 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 COE has set the score according to the activities as the table below.

Table of activities, the regulation for counting the PDU

| No. | Activity   | Sub-activity |  | Regulation   | Weight |
|-----|--|--------------|--|--|--------|
| 1   | <b>Formal learning</b><br><br>Maximum 40 PDU.<br>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.<br>Count by course hours.        | 2.0    |
|     |  |              |  | Fail the examination.<br>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    |
| 2   | <b>Informal learning</b><br><br>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    |

| No. | Activity  | Sub-activity |  | Regulation                                | Weight |
|-----|---|--------------|--|---|--------|
| 3   | <b>Participation in seminars, conferences and meetings.</b><br><br>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><br><br>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><br><br>Maximum 40 PDU | 501          | Being various academic committees concerning programme of study of universities.  | Count by hours of participation.  | 2.0    |
|     |   | 502          | Being a member or a committee of a Continuing Professional Development programme.   | Count 10 hours per programme.   | 2.0    |
|     |   | 503          | To participate in the process of setting up and inspecting a Continuing Professional Development programme                                  | 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.<br>Master and Ph.D. : count 10 hours per project. | 1.0    |
| 6   | <b>Industry Involvement</b><br><br>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><br><br>Maximum 40 PDU | 701          | Developing the Code of Practice.  | Count 5 hours per page for author.<br>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.<br>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.<br>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><br>Maximum 50 PDU           | 801          | Patenting engineering innovations.  | Count 40 hours per patent.   | 1.0    |