# APEC ENGINEER REGISTER ASSESSMENT STATEMENT



# Asia-Pacific Economic Cooperation

# By

# **CHINESE TAIPEI**

# **APEC ENGINEER MONITORING COMMITTEE**

Last Revised on: 25 March 2024

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# CHINESE TAIPEI APEC ENGINEER ASSESSMENT STATEMENT

#### Latest Revised on 25 March, 2024

#### PREFACE

The intent of the APEC Engineer Register is to recognize the equivalencies in the qualifications and experience of practicing professional engineers in the participating economies and to facilitate the mobility for cross border practice of qualified engineers among participating economies.

IEA will approve and monitor the operation of the APEC Engineer Registration undertaken by each of Monitoring Committees of the participating economies.

Following the stipulations of the *APEC Engineer Manual*, the central government agency (the "Government") of the Chinese Taipei Economy (Chinese Taipei) in charge of issuing professional licenses and registrations and the Chinese Institute of Engineers (the "CIE") have jointly appointed committee members for establishing the Chinese Taipei APEC Engineer Monitoring Committee (the "Committee"). These members are representatives from engineering institutions, associations, universities, relevant industries and Government agencies.

The Committee was established on 24 March 2005 as the sole non-governmental body to undertake the assessment and registration of APEC Engineers within Chinese Taipei in accordance with the *APEC Engineer Manual*.

Following the requirements stipulated in *APEC Engineer Manual*, the Committee prepared and submitted the initial Assessment Statement on 10 June 2005 applying for a membership of the APEC Engineer Register. The Assessment Statement was approved by the APEC Engineer Coordinating Committee at its 5<sup>th</sup> Meeting held in Hong Kong in 2005. Chinese Taipei was then admitted as a full member of the Coordinating Committee. On 16 June 2007 at the 6<sup>th</sup> Meeting, the Coordinating Committee approved the 1<sup>st</sup> Revision of the Assessment Statement

submitted by Chinese Taipei. Furthermore, following the announcement of the IEA Competency Agreements, subsequent revisions have been duly incorporated as part of this Statement.

The disciplines of Chinese Taipei APEC Engineers covered under this revised Assessment Statement are limited to Civil Engineering, Structural Engineering, Geotechnical Engineering, Electrical Engineering, Environmental Engineering, Hydraulic Engineering, Mechanical Engineering, Soil and Water Conservation, Surveying, as well as Applied Geology. Other disciplines may be further added for inclusion, if and when required. Much of this statement is presented in generic terms applicable to all APEC Engineer disciplines. However, details of specific processes for assessment in each of the aforementioned ten disciplines are given in the Statement for application as required.

The Committee intends to review this Statement from time to time as the situation may warrant under assistance and guidance of the IEA.

# PART A: CHINESE TAIPEI APEC ENGINEER MONITORING COMMITTEE

### A.1 Main Tasks of the Committee

The Committee will conduct activities related to:

# (I) Participation in the Affairs of the APEC Engineer Agreement

IEA is an international organization with Authorized Members, Conditional Members and Provisional Members. Each Authorized Member has one vote under its jurisdiction. The Committee aims to develop and maintain its APEC Engineer Register and promote the accreditation system.

The Committee expresses its commitment to adhere to IEA's mutual recognition requirements and operate in accordance with procedures approved by IEA with respect to the mutual recognition of APEC Engineer qualification between IEA members.

# (II) Assessment and Registration of APEC Engineers within Chinese Taipei

APEC Engineers within Chinese Taipei recognize that the responsibilities of engineers often progress during their career, reflecting an increasing emphasis on management roles, and causing practitioners to engage in continuing professional development activities relevant to their practice. Registration indicates properly maintained competence in professional practice.

# (III) Mutual Exemption Agreement of APEC Engineers

APEC Engineers will be expected to practice in other member economies, if Mutual Exemption Agreements are concluded with such member economies.

# (IV) APEC Engineers Mutual Recognition and Implementation

Participation in the APEC Engineer Register promotes the substantial equivalence in competence of all APEC Engineers. The Committee advances to operate in matters related to the Mutual Exemption Framework developed by IEA.

### A.2 Organization of the Chinese Taipei APEC Engineer Monitoring Committee

The overall organization structure of the Chinese Taipei APEC Engineer Monitoring Committee is shown in Fig. 1 below. According to the relevant by-laws (refer to Attachment 1), the Committee comprises twenty-one (21) to twenty-nine (29) committee members and two (2) supervisors. All of them are appointed jointly by the Government and the CIE, nominated or elected from engineering associations, institutions, universities and government agencies concerned. The list of the current members of this Committee is given in **Annex 1**.



Fig.1 Organization Chart of Chinese Taipei APEC Engineer Monitoring Committee

### A.3 Operation

The Government has authorized the Committee as the sole non-government

body for exclusively and independently handling all matters relevant to APEC Engineers, and the operation of the Committee is subject to monitoring by the IEA in the manner stipulated in the APEC Engineer Manual and the IEA Competency Agreements. For operational mechanism of the Committee, refer to Attachment 1: By-Laws of Chinese Taipei APEC Engineer Monitoring Committee.

### A.4 Establishment of Assessment Panel and Preliminary Review Teams

The Assessment Panel is composed of eleven (11) to seventeen (17) members. Both the Appeal Panel and the Audit Panel are composed of three (3) to five (5) members. Members of the aforesaid panels who are appointed by the Committee from the Specialist Data Bank have a two-year term.

Each of the Preliminary Review Teams (the "PRT") is composed of three (3) members appointed by the Assessment Panel from the Specialist Data Bank according to the prerequisites of individual discipline to be assessed.

The Specialist Data Bank comprises senior professionals and senior specialists from pertinent industry sectors, all with more than twenty (20) years of experience, or full professors with more than five (5) years of teaching and research experience. Their profiles are respectively listed in the Data Bank according to their expertise by categories of disciplines, after being reviewed and accepted by the Committee.

As an alternative, the Committee may also entrust the relevant professional institutions or societies to organize the Assessment Panels for the execution of assessment work.

All of the PRTs will function on a task-force basis, which will be established or dismissed whenever deemed necessary from time to time.

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# PART B ASSESSMENT MECHANISMS

The Assessment Mechanism formulated by the Committee in this document is of a generic nature applicable to all engineering disciplines. As the Assessment Mechanism is applicable for Civil Engineering, Structural Engineering, Geotechnical Engineering, Electrical Engineering, Environmental Engineering, Hydraulic Engineering, Mechanical Engineering, Soil and Water Conservation, Surveying, as well as Applied Geology, additional particulars for assessment in each of the aforementioned ten disciplines are given in the Statement for application as required

### **B.1** Recognition of Higher Engineering Education Programs

### (I) Requirements stipulated in the IEA Competency Agreements

According to the IEA Competency Agreements, in order to be listed on the APEC Engineer Register, applicants must demonstrate to the Committee a level of academic achievement at, or following, the completion of formal education substantially equivalent to that associated with successful completion of the education assessment mechanisms. Five options as described below are provided for consideration:

- 1. An engineering degree delivered and accredited in accordance with the best practice guidelines developed by the Federation of Engineering Institutions of Asia and the Pacific; or
- 2. An engineering degree accredited by an organization holding full membership of, and operating in accordance with the terms of, the Washington Accord; or
- 3. The 1st Step Examination of the Professional Engineer Examination set by The Institution of Professional Engineers, Japan (IPEJ); or
- 4. The combined Fundamentals of Engineering and Principles and Practices of Engineering Examinations set by the United States National Council of Examiners for Engineering and Surveying; or
- 5. An engineering program accredited by a body independent of the education provider, or an examination set by an authorized body within an economy, provided that the accreditation criteria and procedures, or the examination standards, as appropriate, have been submitted by one or more monitoring committees to, and endorsed by IEA.

It is noted that the final option (No.5 listed above) is designed to be an open-ended mechanism, allowing alternative procedures and criteria to be submitted by a monitoring committee for evaluation and acceptance by IEA.

### (II) Academic Achievement Criteria in Chinese Taipei

For accreditation of education systems in Chinese Taipei, the Committee adopts the following criteria for meeting the requirements stipulated under Item (I) of this Section:

An applicant shall be deemed acceptable

- 1. If he/she has successfully completed his/her higher education program and obtained degree from an academic institution outside of Chinese Taipei, whose education programs have duly met any one of the requirements stipulated in the APEC Engineer Manual and the IEA Competency Agreements as shown under Item (I) of this Section; or
- 2. If he/she has successfully completed his/her higher education program and obtained degree from an academic institution in Chinese Taipei, whose education programs have been duly accredited by the Institute of Engineering Education Taiwan (IEET, for more details, please refer to Attachment 2);
- 3. If he/she has successfully completed his/her higher education program and obtained degree from a government-approved and registered public or private university, and fulfilled the curriculum requirements in alignment with those eligible for examination of professional engineer within Chinese Taipei. Refer to Attachment 3 for curriculum requirements in different disciplines.
- 4. If he/she, after having graduated from an engineering college without obtaining a bachelor degree, has successfully obtained a post graduate degree (master's or a higher degree) from an academic institution which meets the requirements of any one of the five options listed in the APEC Engineer Manual and the IEA Competency Agreements or Criteria 1 to 3 prescribed above by Chinese Taipei.

## **B.2** Assessment Mechanism for Independent Practice

Chinese Taipei places great importance on engineers' adherence to the IEA required professional competence standards and their efforts towards sustainable development, as represented by the UN SDGs.

Thus, those applying to be qualified as APEC Engineer within Chinese Taipei economy shall be required to demonstrate the following professional competencies\* to the extent reasonably expected and applicable to their work.

1. Ability to apply advanced knowledge and integrate a variety of perspectives to formulate solutions suitable to local conditions

2. Ability to investigate and analyze complex problems using data and information technologies

3. Awareness of the outcomes and impacts of complex engineering activities

4. Ability to recognize the foreseeable economic, social, and environmental effects of complex activities and seek to achieve sustainable outcomes

5. Ability to practice ethically and professionally, taking into due account legal, regulatory and cultural requirements

6. Ability to communicate and collaborate using multiple media clearly and inclusively with a broad range of stakeholders

7. Ability to adapt to emerging technologies and the ever-changing nature of work

8. Ability to make responsible decisions and exercise sound judgement in the course of complex activities

\*NOTE: The required professional competencies are formulated on the basis of the IEA GAPC 4.

The assessment for the qualification of independent practice shall be conducted by the PRT in accordance with requirements as follows, as well as by considering compliance with the professional competencies listed above.

Passing the Professional Qualification Examination as described in Attachment
 for obtaining the qualification of a professional, and acquiring at least 2 years of actual engineering experience with evidence documented by the Government for: a) obtaining Professional Engineer License for practicing in consulting firms, or running their own professional engineer office; b) being registered as

Chief Engineer for practicing in construction companies; or c) being a Professional Engineer or Chief Engineer practicing in a construction company, who on his own initiative suspended professional practice and has thus had his/her professional engineer license revoked, but currently still holds a professional certificate and is deemed acceptable upon application attaching his/her certificate and stating the reasons for suspension.

(II) Being a senior member of the Chinese Institute of Engineers (CIE), and

a) having more than 10 years of engineering experience in well-established and registered engineering consulting firms or construction companies in Chinese Taipei, during which he/she has worked for a minimum of 5 years in managerial positions (detailed experience shall be shown on Form 3), or

b) being listed in the "Expert Recommendation Databank" of the Public Construction Commission of the Executive Yuan of Chinese Taipei.

### **B.3** Competency based Assessment

For evaluation of applicants' practical experience, the applicants under consideration shall be examined as to whether they have practiced in broad areas of engineering theory application, management, communication and social implications of engineering, and whether their practicing has been carried out in a competent, independent, and ethical manner. Furthermore, the Committee shall also evaluate whether they have, through practice, acquired professional skills and sound engineering judgment in addition to their educational qualifications.

For demonstrating their competency of engineering experience, applicants shall prepare segments of narrative description to fill out in the Application Forms enclosed hereunder. Each of the narrative segments is defined as an Experience Unit describing their actual experiences for supporting the competency claimed by the applicants. The Experience Units are classified into Compulsory Units and Elective Units, subject to respective assessment by the Committee as stipulated below.

For assessment of each of Compulsory and Elective Units, the criteria for acceptable competent levels are indicated with a corresponding code number assigned as shown in Tables 5-1 and 5-2 enclosed in Attachment 5 below.

Based on these performance levels, the practice experience submitted and claimed by the applicant shall be assessed for acceptance or rejection.

### (I) Assessment of Compulsory Units

Table 5-1 listed in Attachment 5 specifies the following two Compulsory Units, which must be all addressed by the applicants; otherwise the application documents shall be deemed incomplete and rejected.

- 1. A minimum of 7 years of experience after graduation (to be described in Form 3 enclosed hereunder); and
  - 2. At least 2 years out of the 7 years of experience in responsible charge of significant engineering work, for which a minimum of one unit listed in Table 5-1 shall be selected and claimed for application (to be described in Form 4 enclosed hereunder).

### (II) Assessment of Elective Units

Table 5-2, presented in Attachment 5, specifies the following 6 engineering fields covering a total of 19 Units of Acceptable Competent Levels, of which at least 3 (regardless of the engineering field) are to be selected by the applicant in connection with their 7 years of working experience for supporting the expertise claimed (to be described in Form 5 enclosed hereunder).

- 1. Planning or design
- 2. Project Management or Construction Supervision
- 3. Contribution to Engineering Practice
- 4. Research and Development
- 5. Contribution to the Public Works Sector
- 6. Promotion of Engineering Profession

Applicants are urged to describe efforts at complying with requirements stated in section B2, if applicable for the projects they have executed.

If less than 3 Elective Units are selected and submitted, the application is deemed insufficient, and shall be rejected.

The Preliminary Review Team (PRT) shall review all the documents submitted by the applicant and pay particular attention to the following points related to his/her experience: (1) Personal contribution and responsibilities; (2) Problems faced; (3) Solution found; (4) Engineering judgments made; and (5) Impact generated by such solution and judgments. For details, please refer to **Attachment 5 Assessment Criteria of Practical Experience** enclosed hereunder.

If the documents are deemed to be in order, the PRT shall conduct an interview with the applicant as stipulated below.

### (III) Interview

The interview commences with the applicant making a presentation of his/her claimed expertise to be followed by questions raised by the PRT and answered by the applicant. In the process, the PRT shall listen to and evaluate the presentation made, and shall assess instant responses made by the applicant against the questions raised.

The applicant shall be deemed professionally competent, if their practice performance demonstrated in Forms 3, 4, 5 meets the competent levels required and their presentation, as well as responses to the questions, are all found satisfactory.

### **B.4** Continuing Professional Development

Continuing Professional Development (CPD) is required for all APEC Engineers as stipulated in the IEA Competency Agreements. The Committee applies a credit-hour system as a basis for its assessment as described in Attachment 6.

### (I) For APEC Engineer Application:

Within two years prior to the application submittal date, the applicant must have a total of no less than 50 CPD credit-hours. For each additional discipline applied, an extra 25 CPD credit-hours are required.

### (II) For APEC Engineer Register Renewal:

APEC Engineer Register shall be renewed annually, and the CPD credit-hours shall be reviewed every four (4) years. The total CPD credit-hours required for renewal shall be no less than 180. For each additional discipline to be renewed, an extra 100 CPD credit-hours are required.

The CPD credit-hour activities obtainable by the applicants are shown in Table 6-1. For each activity, the applicant must present valid evidence of attendance issued by the activity sponsors and fill out Form 6: Summary of CPD Activities Claimed.

Failure to comply with the aforesaid requirements may result in rejection of application, or renewal of the license.

The Committee shall strictly follow the CPD requirements prescribed in Attachment 6 for registering or renewal of APEC Engineer qualification.

### **B.5** Code of Ethics

All applicants seeking registration as APEC Engineers in Chinese Taipei shall agree to be bound by the Code of Ethics for Chinese Taipei APEC Engineer/IntPE (the "Code") contained in Attachment 7. Applicants have an obligation to inform the Committee of any matter that may affect their fitness for registration. Violation of relevant regulations may constitute just cause for removal from the APEC Engineer Register. A reaffirmation of the Code of Ethics shall be required at each renewal following the initial registration.

Applicants are required to confirm their understanding and agreement to adhere to the Code by signing Form 7. The Committee shall further inspect the applicant's adherence to the Code during the interview session.

### **B.6** Audit and Appeal of APEC Engineers

The Committee may conduct an audit of all the documents relevant to an applicant's APEC Engineer qualification, as well as the mechanisms and

procedures applied throughout the review process to ensure its proper quality. An Auditor Panel, comprised of members selected from the Specialists Data Bank, shall be set up within the Committee for this purpose.

An APEC Engineer shall, if selected for an audit, comply with the requests of the Audit Panel and provide information, attend meetings to respond to questions, or supply clarifications as required.

An Appeal Panel is set up within the Committee in accordance with the IEA Competency Agreements for dealing with any complaint or protest made in writing related to the operation and decisions of the Committee.

# PART C ENGINEERING DISCIPLINES

The Committee currently accepts assessment of engineers in ten (10) disciplines, namely Civil Engineering, Structural Engineering, Geotechnical Engineering, Electrical Engineering, Environmental Engineering, Hydraulic Engineering, Mechanical Engineering, Soil and Water Conservation, Surveying, as well as Applied Geology. Other disciplines may be added by the Committee in due course if deemed necessary.

Indicative scope for the above-mentioned disciplines covering the corresponding Professional Engineer examination requirements set forth by the Examination Yuan is presented in detail in **Attachments 3** and **4**.

# PART D APPLICATION GUIDELINES

All information required and the Application Forms to be completed by applicants are compiled in **Attachment 8**, which includes: (1) Preface; (2) Definition of APEC Engineer; (3) Qualification required as an APEC Engineer; (4) Documents to be prepared by an Applicant; (5) Assessment Procedure; (6) Registration Procedure; (7) Assessment for Renewal of Registration; (8) Auditing; (9) Fee Schedule; (10) Appeal Panel; and (11) Contact Persons.

The Attachment 8, Application Guidelines include all necessary Attachments and Application Forms for use by the prospective applicants. It is also posted on the website of the Committee for local professionals to obtain related information through Internet.

(End of Main Text)

# **ATTACHMENTS**

Attachment 1	By-Laws of Chinese Taipei APEC Engineer Monitoring Committee
Attachment 2	Accreditation Mechanism for Higher Education System of IEET
Attachment 3	The Curriculum Requirements Eligible for the Examination of Professional Engineer Within Chinese Taipei
Attachment 4	Examination of Professional Engineer Held by the Examination Yuan
Attachment 5	Assessment Criteria of Practical Experience
Attachment 6	Criteria of Continuing Professional Development
Attachment 7	Codes of Ethics for Chinese Taipei APEC Engineers
Attachment 8	Application Guidelines

# Attachment 1

# By-Laws of Chinese Taipei APEC Engineer Monitoring Committee

Amended by the 62<sup>nd</sup> Committee Meeting on June 22, 2020

- Article 1 Under the authorization of the competent Central Government Agency as indicated in the Professional Engineers Act (hereinafter referred as "CGA"), the Chinese Institute of Engineers (hereinafter referred to as "CIE") organized and established Chinese Taipei APEC Engineer Monitoring Committee (hereinafter referred to as the "Committee") acting as the sole official representative of Chinese Taipei Economy in charge of all matters relating to APEC Engineers.
- Article 2 The purposes for the establishment of the Committee are to develop and maintain register of local APEC Engineers; to promote mutual recognition of APEC Engineers among the member economies, and to assist them in practicing business abroad so as to elevate the international status of local APEC Engineers.
- Article 3 The major responsibilities of the Committee as commissioned shall be:(1) To conduct local APEC Engineers qualification recognition under the authorization of the IEA;

(2) To collaborate closely with the IEA in managing matters relating to APEC Engineers, and to engage in the operations of the IEA, sponsor, co-sponsor and participate in relevant meetings or seminars.

(3) To register, issue, renew, audit and control APEC Engineer Register of local engineers after recognition of their qualification.

(4) To assist the Government in expediting signature of bilateral or multi-lateral agreements relating to mutual recognition of APEC Engineers.

(5) To register and conduct the practice of foreign APEC Engineers recognized in other economies, according to bilateral or multilateral agreements signed.

(6) To maintain contacts with APEC Engineer Monitoring Committees of other economies and exchange with them the information and materials related to APEC Engineers.

(7) To handle any other business related to APEC Engineers.

- Article 4 The office of the Committee is located in the office of the CIE. However, the Committee may establish its office in other location, if required for the purpose of operations.
- Article 5 The operations of the Committee shall be financed from the following sources:
  - (1) Annual subsidies from the government;
  - (2) Donations from private sectors;
  - (3) Fees and charges collectable through various operations and services.
- Article 6 The Committee shall have twenty-one (21) to twenty-nine (29) Committee Members and two (2) Supervisors. Committee Members shall be jointly appointed by CGA and CIE with qualifications and composition provided below:
  - (1) Senior professionals and scholars from related disciplines within the Chinese Taipei economy shall comprise no less than two thirds of the total Committee membership, and one half of whom shall have the qualification of professional engineers, and
  - (2) Department heads from relevant Government Agencies.

The two Supervisors shall be assigned separately by CGA and CIE.

The Chairman and two Vice Chairpersons shall be jointly appointed by CGA and President of CIE from Committee Members, with a due notification to CIE Board of Directors.

The tenure of the Chairman, Vice Chairpersons, Committee Members and Supervisors is two (2) years, which may be subject to succeeding extension, as long as they are so appointed.

Committee Member representing professional engineer associations appointed in accordance with Paragraph 1, Subparagraph 1 shall be nominated by relevant national professional engineers' association (or federations). The tenure of Committee members appointed in accordance with Paragraph 1, Subparagraph 2 shall be same as their tenure in the original government agency. The Chairman, Vice Chairmen, Supervisors and all other Members of the Committee shall be acting without pay.

For any reason when a Committee Member cannot assume the appointed office, the vacancy shall be filled through joint reappointment by the competent Central Government Agency indicated in the Professional Engineers Act and CIE.

- Article 7 Regular meetings of the Committee shall be held at every three month intervals called and chaired by the Chairman.The Chairman may call special meetings, when deemed necessary or when motioned by a minimum of one thirds of the Committee members.
- Article 8 Resolutions of the Committee Meeting shall be effective with a minimum of one half of Committee Members present and voted affirmative by a minimum of two thirds of the attendance. However, for matters relating to the following important issues, the resolution shall be effective with a minimum of two thirds of Committee Members present and voted affirmative by a minimum of three quarters of the attendance, or with written consent of at least two thirds of Committee Members:

(1) Amendment of the By-laws.

(2) Change of the purpose for establishment of the Committee or dissolution of the Committee.

- Article 9 For the purpose of assessment operation regarding to APEC Engineers, the Committee may establish an Assessment Panel, an Appeal Panel, an Audit Panel, and a Specialists Data Bank; Assessment Panels and Preliminary Review Teams for each of the APEC Engineer disciplines may be formed from time to time on a task-force basis. The regulations governing the establishment of such panels, teams, as well as Specialist Data Bank shall be separately established by the Committee.
- Article 10 The Committee shall have one Chief Executive Officer ("CEO") and one to two Deputy CEOs. Nomination and removal of the Chief Executive Officer or Deputy CEOs shall be proposed by the Chairman and subject to the approval of the Committee. The Chief Executive Officer shall manage all of the Committee matters under the direction of the Chairman.

To handle financing, accounting and general affairs of the Committee, an Administrative Team may be formed with its operation rules to be separately determined by the Committee.

- Article 11 When required for the purpose of operations, the Committee may engage full-time or part-time advisers, accountants and general staff as proposed by the Chief Executive Officer and approved by the Chairman.
- Article 12 Should it be affected by international situation, or should the purposes for which the Committee was established no longer exist, the Committee may be dissolved subject to the approval of CIE and the competent Central Government Agency indicated in the Professional Engineers Act. The remaining properties of the Committee as a result of dissolution shall belong to CIE.
- Article 13 Any amendments to these By-laws shall be subject to the adoption of the Committee and shall become effective upon approval by both CIE and the competent Central Government Agency indicated in the Professional Engineers Act.

# Attachment 2

# **Accreditation Mechanism for Higher Education System of IEET**

This section contains a brief description of the Institute of Engineering Education Taiwan (IEET).

A. Introduction of IEET

With the supports from the Ministry of Education and National Science Council, IEET was founded in June 2003. IEET is an independent non-profit organization with accreditation of engineering and technology programs within Chinese Taipei as its primary function. In June 2007, IEET was accepted as a full signatory of the Washington Accord (WA). For more details about IEET, please refer to IEET's website at <u>http://www.ieet.org.tw/en</u>.

As a signatory of Washington Accord, IEET carries out its accreditation works based on the Rules and Procedures and Graduates Attributes prescribed by the Washington Accord.

# B. IEET Graduates Attributes and Accreditation Criteria

Within IEET, the Accreditation Council (AC) is in charge of reviewing whether the accrediting engineering programs can provide students attainment of various skills, knowledges and competencies, so-called graduate attributes, by the time of their graduation. Following the graduate attributes requirement of Washington Accord, the IEET Graduate Attributes are listed below:

- 1. Ability to apply knowledge of mathematics, science, and engineering.
- 2. Ability to design and conduct experiments, as well as to analyze and interpret data.
- 3. Ability to apply techniques, skills, and modern tools necessary for engineering practice.
- 4. Ability to design an engineering system, component, or process.
- 5. Ability to manage project (including budgeting), communicate effectively, work in multi-disciplinary environment, and function on teams.
- 6. Ability to identify, formulate, research literature and analyses complex

engineering problems reaching substantial conclusions.

- 7. knowledge of contemporary issues; an understanding of the impact of engineering solutions in an environmental, societal, and global context; and the ability and habit to engage in life-long learning.
- 8. Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice, and a sense of respect for diversity.

A wide spectrum of requirements is needed from programs to attain the aforementioned objectives. For that purpose, the Accreditation Council established the Accreditation Criteria for Accrediting Engineering Programs to assess programs for those requirements. The criteria is listed below:

# Accreditation Criteria for Accrediting Engineering Programs

Institute of Engineering Education Taiwan Accreditation Council

Approved by the Accreditation Council on November 27, 2015

# Criteria 1 to 9 apply to bachelor's degree program; Criterion G applies to master's and above degree program

### **Criterion 1: Program Educational Objectives**

This criterion assesses the program educational objectives (PEOs) and the validity of such objectives. The program seeking accreditation must:

- 1.1 publish detailed PEOs that demonstrate the program's characteristics and relevance to the contemporary trends and societal demands;
- 1.2 describe the relationship between the PEOs of the program and those of institution, as well as the process of establishing these objectives;
- 1.3 describe the manner in which the design of the curriculum is consistent with the PEOs;
- 1.4 institutionalize an effective assessment process to assure the achievement of the PEOs.

### **Criterion 2: Students**

This criterion assesses the quality of education for students and capacity of the graduates. The program seeking accreditation must:

- 2.1 have appropriate regulations that are consistent with the PEOs;
- 2.2 have measures and policies encouraging students to engage in academic exchange and related learning activities;
- 2.3 institutionalize an effective advising and assessment system.

### **Criterion 3: Graduate Attributes and Assessment**

This criterion assesses the graduate attributes. The program must demonstrate that students have attained the following outcomes by graduation:

3.1 ability to apply knowledge of mathematics, science, and engineering;

- 3.2 ability to design and conduct experiments, as well as to analyze and interpret data;
- 3.3 ability to apply techniques, skills, and modern tools necessary for engineering practice;
- 3.4 ability to design an engineering system, component, or process;
- 3.5 ability to manage project (including budgeting), communicate effectively, work in multi-disciplinary environment, and function on teams;
- 3.6 ability to identify, formulate, research literature and analyze complex engineering problems reaching substantial conclusions;
- 3.7 knowledge of contemporary issues; an understanding of the impact of engineering solutions in an environmental, societal, and global context; and the ability and habit to engage in life-long learning;
- 3.8 apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice, and a sense of respect for diversity.

#### **Criterion 4: Curriculum**

This criterion assesses the curriculum of the program:

- 4.1 Design and contents of the curriculum must be consistent with the PEOs, and the program must demonstrate through transcript analysis that coursework of each graduate includes the following three major components: mathematics and basic sciences, technical and professional engineering component, and general education. Specifically:
  - 4.1.1 mathematics and basic sciences must account for at least 9 credits and total to at least one fourth of the credits required for graduation;
  - 4.1.2 technical and professional engineering component must account for at least three eighths of the credits required for graduation including capstone design course;
  - 4.1.3 general education component must complement the technical contents of the discipline and be consistent with the PEOs.
- 4.2 Design and implementation of the curriculum must correlate the development of the industry and prepare students to culminate the learned knowledge and skills in engineering practice.

#### **Criterion 5: Faculty**

This criterion assesses the faculty of the program with regard to the following:

- 5.1 The full-time faculty must be of sufficient number;
- 5.2 The faculty must be involved in the formation and execution process of the PEOs;
- 5.3 The faculty must have the qualification and competencies to cover the professional knowledge of the subject areas in which they teach;
- 5.4 The program must demonstrate the effectiveness of faculty-student interactions and student advising;
- 5.5 The program must demonstrate the effectiveness of interactions of the faculty with industry;
- 5.6 The program must provide the faculty with the appropriate channels and incentives for professional growth and development;
- 5.7 The faculty must participate in relevant academic and professional organizations and activities.

#### **Criterion 6: Space and Facilities**

This criterion assesses instructional facilities, space, and hard and software:

- 6.1 The program must provide an environment to foster effective faculty-student interaction;
- 6.2 The program must provide an environment to support the development of professional knowledge and skills of students;
- 6.3 The program must provide enough opportunities and guidance for students to learn the use of the specialized equipment and tools;
- 6.4 Computing and information infrastructure must be in place to support the teaching activities of the program;
- 6.5 The program must provide a safe learning environment and have appropriate system in place to maintain, upgrade, and manage these facilities.

#### **Criterion 7: Institutional Support and Financial Resources**

This criterion assesses the institutional support and financial resources of the program:

- 7.1 The institution must provide adequate support and financial resources to assure the quality and continuity of the program, along with constructive leadership and management;
- 7.2 Resources must be sufficient to support the ongoing professional development of the faculty;
- 7.3 Administrative personnel and technical staff must be adequate to meet the program's needs;
- 7.4 Financial resources must be sufficient to acquire, maintain, and operate the facilities, infrastructure, and equipment appropriate for the program to support educational needs.

#### **Criterion 8: Discipline-based Criteria**

This criterion assesses whether the program satisfies the criteria stipulated specifically for each discipline, where: all courses and faculty qualifications must be consistent with the respective disciplines; and if a program encompasses multiple disciplines, it must satisfy the criteria of all respective disciplines.

#### **Criterion 9: Continuous Improvement**

The program must institutionalize a process to assess and evaluate the extent to which the student outcomes are being attained and demonstrate that the results of such evaluations are being systematically utilized as input for the continuous improvement of the program:

- 9.1 demonstrate in a consistent manner that students have attained the graduate attributes by graduation;
- 9.2 demonstrate in a consistent manner that planning and implementation of the curriculum must correlate the development of the industry and prepare students to culminate the learned knowledge and skills in engineering practice;
- 9.3 demonstrate in a consistent manner that continuous improvements are attained in other areas.

### C. Accreditation Policies and Procedures

In According with IEET "Policies for Accreditation of Programs" and "Procedures for Accreditation of Programs" established by the Accreditation Council, the following summarizes IEET's general procedures and process for accreditation.

- 1. A program seeking accreditation must officially submit a complete request for review with IEET. Upon acceptance by IEET, the program shall submit a Self-study Report to be reviewed by the accreditation team.
- 2. An accreditation team appointed by the Engineering Accreditation Commission (EAC), under the Accreditation Council, is responsible for reviewing the Self-study Report, conducting on-site visit, preparing the Accreditation Statement (statement of findings from on-site visit) and making recommendation on the Accreditation Action for the accrediting program. The accreditation team consists of one team chair, and one to four program evaluators. In principle, one of the evaluators should be from industry.
- 3. The Accreditation Actions are the term of accreditation condition for programs, to be accredited or not, and length of time. Accreditation Actions are subject to the decision of Engineering Accreditation Commission and must be approved by the Accreditation Council.
- 4. With the decision from the Accreditation Council, Accreditation Statement and the Accreditation Action are then issued to the accrediting program and its affiliated institution.
- 5. There are three possible outcomes for Accreditation Action namely "Accredited," "Pending for Accreditation Action," and "Not to be Accredit." Under the "Accredited" action, there are four subset which set the length of the accreditation period. "Next General Review (6 years)", "Interim review- 3 years", "Interim Review- 1 year", and "Provisionally Accredited". This concluded the general process of accreditation unless;
- 6. Any program seeking accreditation received a "Not to Accredit" decision may appeal to the AC's Appeal and Review Committee (ARC).

# Attachment 3

# Eligibility Requirements for the Professional Engineer Examination in Chinese Taipei

### A. Preface

To be eligible as local Professional Engineers in Chinese Taipei, applicants shall, as required by law, participate and pass the Qualification Examination for Professional Engineer, which is conducted by the Ministry of Examination of the Examination Yuan, once a year. The Ministry of Examination belongs to the Examination Yuan, entirely independent from the Ministry of Education, and is solely in charge of administering various examinations for qualifying those professionals or public servants prior to registering with or serving in government organizations. The participants are generally limited to the graduates of engineering faculties of universities, who have successfully completed such basic science courses as general physics, chemistry; general mathematics, calculus; differential equations; etc. In addition, they shall have successfully completed certain minimum required engineering courses in their applied disciplines, as prescribed in the following sections by the Ministry of Examination.

# **B.** Required Engineering Courses for Candidates Sitting for the Examination

The candidates, who shall be qualified for sitting for the examination, shall hold diplomas in their respective applied disciplines, and shall successfully complete the basic science courses as mentioned in the first paragraph, and at least seven (7) courses required for each discipline as prescribed by the Ministry of Examination.

For specific eligibility requirements for each of the disciplines, please refer to the applicable section of the Ministry of Examination Senior Professional and Technical Examinations Regulations for Engineers, Appendix 1: Senior Professional and Technical Examinations for Engineers—Eligibility Requirements (link as below).

(https://wwwc.moex.gov.tw/english/controls/wHandEditorExtend\_File.ashx?Fun=M enu&menu\_id=3608&item\_id=3608&file\_id=8041).

# Attachment 4

# Examination of Professional Engineer Held by the Examination Yuan

# A. Examination Subject Requirements

The participants are generally limited to the graduates of engineering faculties of universities, who have successfully completed the basic minimum required science and engineering courses in their applied disciplines as listed in Attachment 3.

For specific examination subjects, please refer to the applicable section of the Ministry of Examination Senior Professional and Technical Examinations Regulations for Engineers, Appendix 2: Senior Professional and Technical Examinations for Engineers—Exam Subjects (link as below).

(https://wwwc.moex.gov.tw/english/controls/wHandEditorExtend\_File.ashx?Fun=M enu&menu\_id=3608&item\_id=3608&file\_id=8042).

# **B.** Obtaining Professional Practice Licenses or Registering as Principal Engineers

After passing the Qualification Examination held by the Ministry of Examination, the applicants will obtain Examination Passing Certificates, and then may apply with an evidential document demonstrating to have at least two (2) years of actual practicing experience to the regulatory agency in charge of professional engineers at the central government level for obtaining (i) the Professional Practice License for working in a consulting firm or operating their own professional engineer offices or (ii) registering as a Principal Engineer working with construction firms.

After obtaining the Professional Practice License, or registering as Principal Engineers, the applicant will be considered eligible to practice independently.

A set of laws and regulations governing qualification, registration, practicing and conduct of local professional engineers in Chinese Taipei are available from websites

of the Ministry of Examination (https://www.moex.gov.tw), and the Public Construction Commission (<u>https://www.pcc.gov.tw</u>).

# Attachment 5

# **Assessment Criteria of Practical Experience**

# A. Purpose of Assessment

The purpose for the assessment of the applicants' practical experience is to evaluate whether they have practiced in broad areas of engineering theory application, management, communication and social implications of engineering and their practice has been carried out in a competent, independent, and ethical manner. Furthermore, they shall demonstrate in their application documents that they have, through practice, acquired professional skills and sound engineering judgment in addition to their educational qualifications.

Those applying to be qualified as APEC Engineer within the Chinese Taipei economy shall be required to demonstrate the following professional competencies\* to the extent reasonably expected and applicable to their work.

1. Ability to apply advanced knowledge and integrate a variety of perspectives to formulate solutions suitable to local conditions

2. Ability to investigate and analyze complex problems using data and information technologies

3. Awareness of the outcomes and impacts of complex engineering activities

4. Ability to recognize the foreseeable economic, social, and environmental effects of complex activities and seek to achieve sustainable outcomes

5. Ability to practice ethically and professionally, taking into due account legal, regulatory and cultural requirements

6. Ability to communicate and collaborate using multiple media clearly and inclusively with a broad range of stakeholders

7. Ability to adapt to emerging technologies and the ever-changing nature of work

8. Ability to make responsible decisions and exercise sound judgement in the course of complex activities

\*NOTE: The required professional competencies are formulated on the basis of the IEA GAPC 4.

# **B.** Assessment Criteria and Competency Levels

To undergo the assessment, the applicant shall prepare segments of narrative description of the particular engineering experience he/she claims to possess as part of the application documents. Each of the aforesaid segments of engineering experience is defined as an Experience Unit, which shall be designated either as the Compulsory Units or the Elective Units, as required by Application Forms enclosed hereunder.

The Competency Levels required for each of the Experience Units are indicated as listed in Tables 5-1 and 5-2, with a corresponding code number assigned. Based on these performance levels, the practice experience claimed and submitted by the applicant will be assessed and judged for acceptance or rejection.

# C. Compulsory Units

Table 5-1 lists specifics of the following two Compulsory Units to be addressed by the applicant.

- 1. A minimum of 7 years of experience after having graduated from an academic institution, and
- 2. At least 2 years out of the 7-year experience being responsible for significant engineering work, among which one unit of the Competency Levels shall be selected and claimed by the applicant.

### **Table 5-1 Requirements for Compulsory Units of Experience**

Minimum Years of Experience	Applied Criteria Code No.	Competency Level
7 years of working	C-1-a	Full 7-year practical experience in related
experience after		engineering fields since graduation from an
having graduated from		academic institution by the time of submittal of
an academic		the application.
institution		

	At least one of the following Units of the Competency		
	Level is selected and claimed.		
At least 2 years out of	C-2-a	Planned, designed, coordinated and executed a	
At least 2 years out of 7 years responsible for significant engineering work		small project	
	C-2-b	Undertook part of a larger project based on an	
		understanding of the whole project	
	C-2-c	Undertook novel, complex and/or	
		multi-disciplinary work	
	C-2-d	Project management or construction supervision	

# **D. Elective Units**

Table 5-2 lists specifics of the following 6 engineering fields against each of which multiple units of acceptable performance levels are indicated. The applicant shall select at least 3 from these units (regardless of engineering field) from his 7-year experience for supporting his/her experience claimed.

- 1. Planning or Design
- 2. Project Management or Construction Supervision
- 3. Contribution to Engineering Practice
- 4. Research and Development
- 5. Contribution to the Public Works Sector
- 6. Promotion of Engineering Profession

The experience of applicants shall be deemed professionally competent and qualified, if the performance of their experience is assessed to be meeting the acceptable levels specified in Table 5-2.

Fielda Claimad	Code No.	Units of Acceptable Competent		
r leius Claimeu		Levels		
Planning or	O-1-a	Performed good planning or design with		
Design		outcomes and cost estimate meeting		
Design		requirements of clients		

Fielda Claimad	Code No.	Units of Acceptable Competent		
rielus Claimeu		Levels		
	O-1-b	Developed or adopted effective		
		solutions for resolving technical		
		problems encountered during planning		
		or design		
	O-1-c	Selected or adopted sound technical		
		assumptions, data, or parameters for		
		carrying out accurate, competent or		
		cost-effective planning or design		
	O-1-d	Executed a control process for checking		
		or controlling planning or design,		
		including later design modifications		
	O-2-a	Established and performed effective		
		programs at site for controlling the		
		construction qualities intended for the		
		project, and for maintaining effectively		
Project		the job-site safety		
Management or	Identified risks involved in the project			
Construction	construction with associated impacts,			
Supervision		and carried out the risk mitigation plan		
	O-2-c	Strictly controlled the construction		
		schedule, or adopted schedule		
		acceleration measures for avoiding		
		schedule slips		
	O-3-a	Developed or applied innovation, new		
		concept, new principles, new codes,		
Contribution to		standards or practice in engineering		
Engineering		practice		
Dractice	O-3-b	Developed and acquired patent rights		
riactice		for new concept, new methods, and new		
		products during implementation of the		
		project		
	O-4-a	Carried out or joined research and		
Descend and		development programs sponsored by		
Development		private or public sectors with outcome		
Development		applied for upgrade of engineering		
		practice		

Fielda Claimad	Code No.	Units of Acceptable Competent		
Fleids Claimed		Levels		
	O-4-b	Acquired patent right as an outcome of		
		the research and development program		
	O-5-a	Joined public hearings for help develop		
		or establish governmental policies		
		regarding public work		
Contribution to	O-5-b	Advocated on behalf of engineering		
Dublic Works		associations to influence the decisions		
Sector		that have engineering implication		
Sector	O-5-c	Served as committee members or task		
		force panelists for government for		
		resolving engineering related problems,		
		assessments, or arguments		
	O-6-a	Advocated innovative engineering		
		solutions		
	O-6-b	Led and promoted ethical decisions		
Dromotion of	O-6-c	Led and managed multi-disciplined		
Engineering Profession		team for close cooperation for		
		completion of the work		
FIOLESSION	O-6-d	Sought or established engineering		
		business opportunities		
	О-б-е	Established or operated a larger		
		consulting firm		

### **E.** Application Forms

The Application Forms as mentioned hereunder are attached for use by the applicants for completing their application documents.

Applicants shall note the following, when the Forms are filled out for the preparation of their application documents:

- 1. There are three (3) forms (Form 3, 4, and 5) required for submittal by each applicant for the demonstration of his/her practical experience.
- 2. Application Form 3 is used for a narrative engineering practice description

for all engineering experience of an applicant gained in the full 7 years prior to the date of his/her submittal of the application documents.

- 3. Application Forms 4 and 5 describe the particular segments of the experience selected among the 7-year experience for claiming competency in the applicant's experience.
- 4. Forms 3 and 4 shall be used for demonstrating 2 Compulsory Unit of the experience required as shown in Table 5-1, and Application Form 5 shall be used for demonstrating at least three (3) Elective Units of the experience required as shown in Table 5-2. These Application Forms shall all be prepared and submitted; otherwise, the application shall be considered incomplete and shall not be assessed. In Forms 4 and 5, the applicant shall describe in details his/her: (i) Personal contribution and responsibilities; (ii) Problems faced; (iii) Solutions found; (iv) Engineering judgments made; and (v) Impact generated by such solution and judgments, for supporting the competency claimed.
- 5. When filling out the application Forms, applicants shall quote the claimed code numbers in their statements.
- 6. Experience of applicants described shall be arranged in a time sequence, with the most recent one first, with claimed facts described as detailed as possible.
- 7. The Experience Units defined in the Application Forms should be basically limited to those of full-time employment only. However, part-time practical experiences may also be included and demonstrated for the PRT to understand the experience actually gained by the applicant. Should the PRT consider it adequate and desirable, it may also take such part-time experience into evaluation of the applicant's competency.
- 8. In addition to the applicant's own signature, an attester from or related to the organization for which he/she has worked for shall put their signatures on the Forms to certify correctness of the descriptions made therein.
- 9. The above-mentioned signatory persons must bear full responsibility for the truthfulness and correctness of the statements made in the Forms.

Applicants are urged to describe efforts at complying with requirements stated in section B2, if applicable for the projects they have executed.

# Attachment 6

# **Criteria of Continuing Professional Development**

The Committee applies the following credit-hour system as a basis for assessing the CPD activities undertaken by applicants.

# 1. For APEC Engineer Application:

Within two years prior to the application submittal date, the applicant must have a total of no less than 50 CPD credit-hours. For each additional discipline applied, an extra 25 CPD credit-hours are required.

# 2. For APEC Engineer Register Renewal:

APEC Engineer Register shall be renewed annually, and the CPD credit-hours shall be reviewed every four (4) years. The total CPD credit-hours required for renewal shall be no less than 180. For each additional discipline to be renewed, an extra 100 CPD credit-hours are required.

The CPD credit-hour activities obtainable by the applicants are shown in Table 6-1. For each activity, the applicant must present valid evidence of attendance issued by the activity sponsors and fill out Form 6: Summary of CPD Activities Claimed.

The Committee reserves the right to review the details of the CPD activities and reject the inclusion of its credit hours if they are not deemed relevant.

To encourage participation in CPD activities sufficiently related to UN SDGs, the Committee shall allow to double the credit-hours for attending activities recognized as such based on the evidence provided by the applicant.

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Type A	As	Domostic	1/Actual	Nono	Verified by
Seminars;	Participant	Domestic	Hour	None	Certificate

 Table 6-1 Credit-hours for CPD Activities

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Conferences; Workshops or Special		International	3/Actual Hour		
Topic Lectures (Professional Training Programs)	As Presenter	Domestic International	5/Actual Hour 20/Actual Hour	None	If more than one, then shared
	As Lecturer	Domestic International	10/Actual Hour 30/Actual Hour	None	equally by Co-Authors or Co-Translators
Type B Published in Professional or Academic Periodicals or Translated Works Published thereon		Domestic	10/Per Article		Journals and periodicals as specified on the
	As Author	International	30/Per Article	None	PCC website. If more than one, then shared equally by the
	As Translator	Domestic	4/Per Article	None	Co-Authors or Co-Translators
Type C On-job Training or Continuing Education in Graduate Programs Accredited by IEET	As Participant	Both	3/Actual Hour or as Computed	None	Minimum 10 hours of lecture for 1 credit; Transcripts or
	As Lecturer	Both	5/Actual Hour; or as Computed	None	Transcripts or Records to be submitted for assessment.

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Type A Participation in local or International Committee	As a member of committee or in	Domestic	10/Each Appointment	Maximum for this category	Verified by Letters/
or Society	positions	International	Appointment	18 30	Certificate
Туре В	As	Domestic	1/Actual Hour	Ŋ	
Professional Training Programs; Accredited	Participant	International	3/Actual Hour	None	If more than one, then shared equally by Co-Authors or Co-Translators
Lectures, Seminars, Conferences; Workshops or Special Topic Lectures	As Presenter/	Domestic	10/Actual Hour		
	Lecturer	International	30/Actual Hour	none	
Type C Technical Investigation or Assistance	As team members or participants	Both	5/Per Event or project	None	
	As principal investigator/l eader	Both	10/Per Event or project	None	

# Table 6-2 Credit-hours of Category II CPD Activities

\* APEC Engineers working in a foreign country and attending Continuing Professional Development training activities sponsored by a professional engineer organization of that country, the credit-hours obtained will be recognized.

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Type A	As Participant	Domestic	1/Actual Hour 3/Actual Hour	None	Verified by Certificate
Seminars; Conferences; Workshops or Special Topic Lectures	As Presenter	Domestic International	5/Actual Hour 20/Actual Hour	None	If more than one, then shared
(Professional Training Programs)	As Lecturer	Domestic International	10/Actual Hour 30/Actual Hour	None	equally by Co-Authors or Co-Translators
Type B Published in Professional or Academic Periodicals or	As Author	Domestic International	10/Per Article 30/Per Article	None	If more than one, then shared equally by
Translated Works Published thereon	As Translator	Domestic	4/Per Article	None	Co-Translators
Type C On- job Training; or Continuing Education in Graduate Programs Accredited by IEET	As Participant	Both	3/Actual Hours or as Computed	None	Minimum 10 hours of lecture for 1 credit;
	As Lecturer	Both	5/Actual Hours or as Computed	None	Records submitted for assessment.

# Table 6-3 Credit-hours of Category III CPD Activities

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Type D Services for Professional or Academic Associations	Active participation on a committee or holding an office in a professional or technical society	Both	5/Each Appointment/ year	Maximum for this category is 20	e.g. Participating IEET education accreditation to engineering programs
Type E Engineering patents registered during the year	As Patentee	Both	50 /Per Patent	None	If more than one, equally shared by Patentees
Type F Contribution to relevant engineering theory, practice or management Skill or method	Conduct accredited lectures, seminars, conferences or training courses	Both	4/for each lecture hour or part thereof	20/ Per Year	If more than one person, shared equally by contributors
Type G Review of Professional Papers/books	As Reviewer	Domestic International	2 /Per Paper 5 /Per Paper	6/ Per Year 10/ Per Year	
Type H Informal In-house training and discussion	Technical Discussion Meeting within the Workplace	Both	1/for every 2 hours	Maximum CPD Credit Hour for Type H & I is 4/	Technical solution is found
Professional Membership	As Participant	Both	2/ organization	Per Year	Membership certificate

Activities	Ways of Participation	Domestic/ International	Credit- hours	Maximum Credit-hours Limited	Remark
Type J Self-Study	With Referenced Papers, Magazines or Books	Both	5/per referenced	20/ Per year	Self-study report per referenced

\* APEC Engineers working in a foreign country and attend Continuing Professional Development training activities sponsored by a professional engineer organization of that country, the credit-hours obtained will be recognized.

# Attachment 7

# **Code of Ethics for Chinese Taipei APEC Engineers / IntPEs**

Those admitted as qualified APEC Engineers & International Professional Engineers (IntPEs) within the Chinese Taipei economy shall adhere to the fundamental principles of their respective profession guided by the norms of conduct consistent with following principles of ethics:

### **1.** Responsibility to the Society

- <u>Strictly Adhere to the Law</u>: comply with all laws and regulations, to ensure public safety and health, and to enhance public welfare.
- <u>Respect Nature</u>: actively contribute to sustainable development\*, protect the natural environment and ecological balance, treasure all natural and other resources and seek their most efficient and waste free use.
- <u>Promote Diversity and Inclusion</u>: be committed to inclusive communication which values gender equality and embraces stakeholders from diverse cultural, societal, ethnic, and other backgrounds and advocates mutual understanding and respect.

# 2. Responsibility to the Profession

- <u>Dedication to Professionalism and Duty</u>: consistently apply professional knowledge, adopt good engineering practices, and fulfill professional duty.
- <u>Be Creative and Open to Lifelong Learning</u>: acquire the latest technological knowledge while at the same time seeking to stay informed on non-technical issues (such as ethical, sustainability, legal, political, economic, societal), strive to improve skills and raise the standards of product quality.
- Ensure that they only undertake tasks for which they are competent

# **3.** Responsibilities to the Client

- <u>Render Services with Integrity</u>: serve with all competency and dedication, protect with professional attention the interests of the Client, while at the same time remembering the interests of society and sustainability.
- <u>Faithfully Seek Mutual Benefits</u>: establish mutual trust, secure win-win consensuses, realize the role of engineering as a force for good.

### 4. Responsibilities to the Colleagues

• <u>Cooperate with Specialists in Other Fields</u>: work proactively and inclusively with professionals from relevant technical and non-technical disciplines, emphasize

coordination and cooperation using various technical tools and media, continuously improve efficiency of execution.

<u>Ensure the Continuity of the Professional Contributions</u>: dedicate to self-encouragement and mutual strengthening for advancement of engineering practice, pass on technical experiences to and encourage younger professionals.

\* As represented by the 17 UN Sustainable Development Goals (UN-SDG)

I shall obey and be bound by the above Code.

Signature:

Date: \_\_\_\_\_

# Attachment 8

# **Application Guidelines**

# Table of Contents

- 1. Preface
- 2. Definition of APEC Engineer
- 3. Qualification Required as an APEC Engineer
- 4. Documents to be Prepared by an Applicant
- 5. Assessment Procedure
- 6. Registration Procedure
- 7. Assessment for Renewal of Registration
- 8. Auditing
- 9. Fee Schedule
- 10. Appeal Panel
- 11. Contact Persons

#### 1. Preface

The APEC Engineer Coordinating Committee was established in 1999 within the Asia-Pacific Economic Cooperation (APEC) framework for the maintenance and development of a decentralized registration mechanism for APEC Engineers, as well as for the promotion of acceptance of APEC Engineers in all participating economies. As a counterpart to the Coordinating Committee, each participating economy is also required to organize and establish, when participating as a member, an APEC Engineer Monitoring Committee in its own economy. The Monitoring Committee was vested with authority to assess and approve the registration of the APEC Engineers within its own economy according to the Assessment Statement, which had been accepted by the Coordinating Committee of APEC Engineer. The assessment operation was further subject to monitoring by the Coordinating Committee in the manner stipulated in the APEC Engineer Manual.

Following the requirements prescribed in the APEC Engineer Manual, both the Central Government (the "Government") agency in charge of registration of local professional engineers in Chinese Taipei, and the Chinese Institute of Engineers (the CIE) jointly appointed 24 members and two supervisors to establish the Chinese Taipei APEC Engineer Monitoring Committee (the "Committee"). These members of the Committee are nominated from academic institutions, professional associations, industry and relevant government agencies.

The Committee was established on 24 March 2005 as the sole non-governmental body to undertake the assessment and registration of APEC Engineers within Chinese Taipei in accordance with the APEC Engineer Manual.

The mechanisms for assessment of the eligibility and competency of APEC Engineers shall comply fully with the criteria prescribed in this Assessment Statement, which has been prepared based on the APEC Engineer Manual and the IEA Competency Agreements, and accepted by IEA.

These Application Guidelines define and explain the required qualifications of applicants; mechanism, evaluation criteria and processes of assessment; information to be provided by applicants; procedures for renewal of registration; and other details related to the submittal of applications in Chinese Taipei.

These Application Guidelines are mostly generic in nature applicable for all engineering disciplines with particular terms to be specifically added, where necessary, for Civil Engineering, Structural Engineering, Geotechnical Engineering, Electrical Engineering, Environmental Engineering, Hydraulic Engineering, Mechanical Engineering, Soil and Water Conservation, Surveying, as well as Applied Geology.

These Application Guidelines will be subject to revision or amendment from time to time, when required, and as soon as revised or amended, new edition will be issued by, or posted on the website of the Committee for use by the applicants accordingly.

### 2. Definition of APEC Engineer

According to the APEC Engineer Manual and the IEA Competency Agreements, APEC Engineer is defined as a professional, who has applied and demonstrated to the Committee through his/her application and qualifications, fully satisfying the procedures and criteria prescribed in this Assessment Statement, and has been assessed and accepted by the Committee. After acceptance, the applicants shall be listed on the Chinese Taipei APEC Engineer Register, and further reported to the IEA.

After bilateral or multilateral negotiation is further completed, and relevant agreements are signed among participating economies, the registered APEC Engineers are able to provide their professional services across the boundaries of these agreement-signed economies.

#### 3. Qualification Required as an APEC Engineer

In order to be qualified, applicants shall satisfy the criteria listed hereunder:

The applicant shall have:

- Completed an accredited or recognized engineering program, as stipulated in Section B.1 of this Assessment Statement;
- (2) Been assessed as eligible for independent practice stipulated in Attachments 4 and 5;
- (3) Gained a minimum of seven (7) years of practical experience since graduation as stipulated in Attachment 5;

- (4) Spent at least two (2) years out of the aforesaid seven (7) in responsible charge of significant engineering work as stipulated in Attachment 5;
- (5) Maintained the Continuing Professional Development at a satisfactory level as stipulated in Attachment 6; and
- (6) Committed to follow and be bound by the Code of Ethics of Chinese Taipei Monitoring Committee as stipulated in Attachment 7.

### 4. Documents to be prepared by an Applicant

The applicant shall fill out and submit the Application Forms as prescribed and attached hereunder to the Committee for review and assessment.

The details and requirements regarding each Application Form are further elaborated as follows and the applicant is suggested to read them carefully beforehand together with the referred Attachments. The Application Documents shall be made in triple, each included with 7 Forms prescribed hereunder:

- (1) Application Form 1: Self-Assessment for Application Submittal This Form is self-explanatory.
- (2) Application Form 2: Personal Information This Form is self-explanatory.
- (1) Application Form 3: General Engineering Experience Report

This Form is a narrative engineering practice description demonstrating actual engineering experience gained by the applicant within at least 7 years of the date of his submittal of application documents. For the Criteria of Units of Competency Level, please refer to Attachment 5.

### (2) Application Form 4: Two (2) Years of Significant Experience

This Form describes particular segments of the two-year experience selected by the applicant from his 7-year experience for claiming to conform to the requirements of significant experience. For the Criteria of Units of Competency Level, please refer to Attachment 5.

### (3) Application Form 5: Three (3) Elective Experiences Claimed

This Form describes three segments of the Experience Units selected by the applicant from his 7-year experience for claiming to conform to the

requirements set forth in the assessment. For the Criteria of Units of Competency Level, please refer to Attachment 5.

- (4) Application Form 6: Summary of CPD Activities Claimed This Form is self-explanatory.
- (5) Application Form 7: Code of Ethics of Chinese Taipei APEC Engineer Applicant shall sign on this Form to commit himself/herself to obey the Code.

The applicant shall also follow the instructions listed below while filling out the Forms:

- (1) Experience of the applicant described in each of the Application Forms 3, 4, and 5 shall be arranged in a reverse chronological order, with the most recent ones first, and described detailed as possible.
- (2) Each narration related to Forms 4 and 5 should be emphasized with the details which have been closely related to the applicant's:
  - a. personal contribution and responsibilities
  - b. problems faced
  - c. solutions found
  - d. engineering judgments made
  - e. impact generated by such solutions and judgments for supporting competence claimed.
- (3) For the Application Forms 3, 4, and 5, the applicant shall quote duly the claimed code numbers in the spaces provided.
- (4) The period of the experience indicated in the Form should be basically limited to full-time employment. However, part-time practical experiences may also be included and demonstrated for the PRT to understand the experience actually gained by the applicant. Should the PRT consider it adequate and desirable, it may also take such part-time experience into evaluation of the applicant's competency.
- (5) In addition to the applicant's own signature, an attester from or related to the organization for which he/she has worked for shall put their signatures on the

Forms to certify correctness of the descriptions made therein.

(6) The above-mentioned signatory persons must bear full responsibility for the truthfulness and correctness of the statements made in the Forms.

# 5. Assessment Procedure

The qualifications required for an APEC Engineer are mentioned above under Item 3 of the Guidelines. The Committee shall strictly follow the Guidelines for the assessment of the qualifications of applicants. And each of the assessment criteria is briefly discussed as follows for reference of the applicant.

# (1) Education of the Applicant

The following criteria are considered acceptable:

- a. If he/she has successfully completed his/her higher education program and obtained degree from an academic institution outside of Chinese Taipei, whose education programs have duly met any one of the requirements stipulated in the APEC Engineer Manual and the IEA Competency Agreements; or
- b. If he/she has successfully completed his/her higher education program and obtained degree from academic institutions in Chinese Taipei, whose education programs have been duly accredited by the IEET; or
- c. If he/she has successfully completed his/her higher education program and obtained degree from a government-approved and registered public or private university, and fulfilled the curriculum requirements in alignment with that eligible for examination of professional engineer within Chinese Taipei. Refer to Attachment 3 for the curriculum requirements of different disciplines.
- d. If he/she, after graduated from an engineering college without obtaining a bachelor degree, has successfully obtained a post graduate degree (master's or higher degree) from an academic institution which meets the requirements of any one of the five options listed in the APEC Engineer Manual and the IEA Competency Agreements or the above-mentioned Criteria (a) to (c) prescribed by Chinese Taipei.

The Education Background filled in under Application Form 2 by applicant shall be checked by the PRT to see whether the education program of the applicant conforms to any of the aforesaid criteria. If the applicant has graduated from an overseas academic institution, a certificate shall be attached accordingly to Application Form 2 as proof.

# (2) Applicant Eligible for Independent Practice

In the Application Form 2, the applicant shall duly indicate details of information regarding the Professional Qualification Examination and Professional Practical License he/she has passed or obtained as prescribed in Attachment 4.

If the applicant is currently not eligible for practice in Chinese Taipei, he/she shall provide an explanation for such ineligibility. Moreover, if the applicant has voluntarily suspended his/her professional practice and professional engineer license, but is currently holding a professional certificate, he/she may be deemed acceptable for application.

# (3) Competence of Practical Experience of Applicant

Application Forms 3, 4, and 5 shall be initially reviewed by the PRT. If the submitted documents pass the review, he/she shall be informed by the PRT to participate in the interview. During the interview, the applicant shall be required to make a 20-minute presentation, and then to answer questions raised by the PRT.

# (4) Requirements of Continuing Professional Development

Continuing Professional Development (CPD) shall be always required for all APEC Engineers as stipulated in the IEA Competency Agreements. Accordingly, an evaluation for such credit-hours shall be performed by the PRT as follows (also refer to Attachment 6):

- a. For Application to become an APEC Engineer:
   Within two years before submittal of the application, the total credit-hours required for each applicant shall be not less than 50.
- b. For Renewal of APEC Engineer Qualification:
   APEC Engineer membership shall be renewed annually, and the CPD shall be reviewed every four years. The total credit-hours for each applicant

shall be not less than 180.

The credit-hours claimed shall be filled out in Application Form 6 attached herewith by the applicant and subject to assessment by the PRT in accordance with the requirements indicated in Attachment 6: Criteria of Continuing Professional Development.

### (5) Commitment to Obey by the Code of Ethics

The Code of Ethics for Chinese Taipei APEC Engineers as shown in Attachment 7 shall be read carefully and understood by the applicant. The applicant shall put his/her signature to commit to obeying and to be bound by it.

Furthermore, the applicant shall undertake that any matter that may affect his/her fitness for admission to, and the continued inclusion as Chinese Taipei APEC Engineer, shall be informed to the Committee as soon as it occurs.

### 6. Registration Procedure

The Committee shall individually inform the applicant of the result of the assessment in due course. Successful applicants shall be contacted by the Committee to proceed with the formalities, such as handing in photos, paying relevant fees, etc. Upon completion of the registration process, the Committee shall issue the APEC Engineer Certificate, and the applicant shall be added to the APEC Engineer Register.

### 7. Assessment for Renewal of Registration

APEC Engineer membership shall be renewed annually with the applicant providing a currently valid professional practice license. The applicant's CPD record shall be reviewed every four (4) years to ensure that a sufficient number of CPD credit hours has been accumulated. Completion of the renewal procedure requires payment of the renewal fee.

### 8. Audit

Pursuant to the requirements of the IEA Competency Agreements, periodic audits shall be conducted by the Committee. For this purpose, qualification documents of a number of registered APEC Engineers, selected on a random basis, shall be inspected. The audit items may include: confirming the CPD records; confirming correctness and accuracy of the previously submitted statements, documents, or certificates; investigating present practicing status for making sure that they are not involved in any misconduct or in any activity resulting in temporarily suspension or revocation of their licenses, etc.

The aforesaid audit shall be carried out by the Audit Panel, which shall be specifically established for this purpose by the Committee.

Any registered APEC Engineer shall, if he/she is so selected for audit by the Audit Panel, be promptly responsive to requests made by the Panel, including submittal of clarification documents, or presence at meetings for verbal explanation or clarification regarding the points audited.

### 9. Fee Schedule

The Fee Schedule, currently effective for assessment, registration, or renewal, is indicated in the following Table 8-1 for reference, which may be subject to change, if required.

 Table 8-1 Fee Schedule

Effective from Jan. 1, 2019

Item	Application *1	<b>Registration</b> *2	Renewal *3
Fees	Per Case	Per Case	Every Year
Fee (NTD)	3,000	1,000	1,000

- Notes: \*1. Application Fee: To be paid upon submittal of Assessment Application. Application fee will not be refunded if the application is not approved.
  - \*2. Registration Fee: To be paid upon receipt of the Approval of Application. If the applicant fails to pay the Registration Fee within three (3) months after receipt of the payment notice, his/her registration will be suspended.
  - \*3. Renewal Fee: To be paid annually one year after the registration. APEC Engineer Renewal Certificate (once every year) will not be issued if the Renewal Fee failed to be paid.

In case the renewal is interrupted, an APEC Engineer can request reinstatement of his/her certificate by paying two years Renewal Fees as compensation.

### **10. Appeal Panel**

The Appeal Panel is set up in the Committee for receiving and dealing with complains or protest made by applicants regarding operation of assessment, audit, or register, etc. All complaints and protests, which must be in writing, shall be carefully studied and resolved on the fair basis by the Appeal Panel. Recommendations of the Appeal Panel shall be submitted to the Committee for final review and approval, before formally responded to the complaints.

The contact person for complains or protest is indicated in the following section.

# **11. Contact Persons**

# For Information, Inquiry, or Appeal:

Robert LUO CEO of Chinese Taipei APEC Engineer Agreement/ International Professional Engineer Agreement Monitoring Committee Mail Address: 3F., 1, Ren-Ai Rd., Sec.2, Taipei, Taiwan 100, R.O.C. Tel: +886-2-23925128 Fax: +886-2-23973003 http://www.apec-ipea.org.tw Email: apecengineer@cie.org.tw

### (End of this Attachment)

# ANNEX 1

# Name List of Current Members of the Committee

No.	Position	Name	Position/Organization
1	Chairman	WANG, Tze-An,	VP, CECI Engineering
2	Vice Chairman	CHIN, Chung-Tien	Senior Vice-President, Chairman's Office, Taiwan Life Company
3	Vice Chairman	HUNG, Sam	Project Development Director, EnBW Asia Pacific Ltd.
4	Member	CHEN, Chihcheng	President, The Union of Soil and Water Conservation Professional Engineer Association of Republic of China
5	Member	CHEN, Hwang-Ming	Chairman, Kung Sing Engineering Corporation
6	Member	CHEN, Tien-Hsi	President, Taiwan Professional Surveying Engineers Association
7	Member	CHENG, Chia-Chi	Professor, Department of Civil and Construction Engineering, Chaoyang University of Technology
8	Member	CHIANG, Hsiu-Tan	Assistant VP, CTCI Corporation
9	Member	CHIU, Chien-Kuo	Director & Distinguished Professor, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology
10	Member	FAN, Su Ling	Director, Tamkang University Construction Law Research and Development Centre
11	Member	HUANG, C. T.	Board Director, Chinese Union of Professional Applied Geological

\* The current members' term of office is until December 2024.

No.	Position	Name	Position/Organization
			Engineer Associations
12	Member	HUANG, Ching-Chang	Director, Department of Professionals and Technologists Examination, Ministry of Examination
13	Member	HUANG, Chung-Ren	Vice President, Sinotech Engineering Consultants Ltd.
14	Member	HUANG, Shi-Chang	Senior Vice President of Construction Supervision, MAA Taiwan
15	Member	HUNG, Chi-Te	President, Taiwan Professional Civil Engineers Association
16	Member	LAN, Zhao-Gin	President, Professional Structural Engineer Society of Republic of China
17	Member	LEE, Teh-Chang	Emeritus Professor, National Taiwan University of Science and Technology
18	Member	LEU, Liang-Jenq	CEO, Institute of Engineering Education Taiwan (IEET)
19	Member	LIAO, Kuo-Chuan	President, Taiwan Province Professional Mechanical Engineers Association
20	Member	LIU, Chin-I	Advisor, Union of Professional Hydraulic Engineer Associations
21	Member	MA, Michael	Executive Vice President, T. Y. Lin International Taiwan
22	Member	SHIH, Chih-Hung	President, Taiwan Professional Geotechnical Engineers Association

No.	Position	Name	Position/Organization
23	Member	SU, Mei-Hsin	Senior Associate General Manager, CECI Engineering Consultants Inc., Taiwan
24	Member	TSENG, Chung-Min	Director, Department of Technology, Public Construction Commission
25	Member	LIN, Wei-An	President, National Association of Professional Environmental Engineers, Taiwan R.O.C.
26	Member	YANG, Kun-Te	President, Taiwan Professional Electrical Engineers Association R.O.C

# Supervisors, (Deputy) CEO & Advisors:

No.	Position	Name	Position/Organization
1	Supervisor	YAN, Jeou-Rong	Deputy Minister, Public Construction Commission
2	Supervisor	YANG, Cheng-Hong	President, Chinese Institute of Engineers
3	CEO	LUO, Robert H.C.	Manager, CECI Engineering Consultants, Inc., Taiwan
4	Deputy CEO	WU, William Hsi-Hsien	Manager, CECI Engineering Consultants, Inc., Taiwan
5	Section Chief, International Liaison	Timur BITOKOV	Deputy Manager, CECI Engineering Consultants, Inc., Taiwan
6	Advisor	LI, John Chien-Chung	Honorary Professor, Department of Civil Engineering, National Central University
7	Advisor	SUN, Yi-John	Executive Director, THI Consultants Inc.
8	Advisor	HO, Kam-Kui	
9	Advisor	WANG, Edward	

No.	Position	Name	Position/Organization
10	Advisor	Taff TU	
11	Advisor	Mandy LIU	Office Director, IEET
12	Advisor	LIN, Steel Ching-Chiang	

Revised on 25 March 2024

# Application Forms of Chinese Taipei APEC Engineer & International Professional Engineer

2024.03.25 revised

# **Including seven (7) forms**

- Form 1: Self-assessment for Application Submittal
- Form 2: Personal Information
- Form 3: General Engineering Experience Report
- Form 4: Two (2) Years of Significant Experience
- Form 5: Three (3) Elective Experiences Claimed
- Form 6: Summary of CPD Activities Claimed
- Form 7: Code of Ethics for Chinese Taipei APEC Engineer/IntPE

	Form 1: Self-assessment for Application Submittal							
-	(Shadowed blank to be filled out by the Committee)							
	APEC Engineer							
╞╴				Application				
				Number				
	Name of Applicant			Signature				
-	Name of Applicant	t		Signature				
	(Chinese, in PRINT)			(Chinese)				
A	ccording to the requir	ements set forth in the Guide	lines i	issued by Chinese	Taipei	Monitoring Committee, I have		
рі	epared and submitted	herewith this Application Docum	nents <u>i</u>	in TRIPLES for apply	ing regi	ster with the Committee.		
	The Application Documents include the following (please check; if enclosed):							
	Self-assessment							
-	Personal Information	on Complete						
		APEC Engineer				IntPE		
			Local:					
	Higher Education	Accredited Program	Accredited Program			or Chinese Taipei IntPE: Higher Accredited by IEET (a signatory		
	U		Private University/College Private University/College Engineering College Post Graduate Degree without bachelor Degree			shington Accord in Taiwan);		
	(Bachelor Degree)	Engineering College P				r updated list of programs ited and officially announced by		
	Graduation Year	bachelor Degree				the IEET.		
		Overseas:						
2		FEIAP Washington	Accor	d With Programs Duly Accredited according to Washington Accord				
		Eng. Exam by US		Washington				
		• National Exam.	Disc	ipline		Year Passed		
	Professional	and Professional	*relat	ted to applied discipline only (In A.D.)		(in A.D.)		
	Qualification &	Practice	Prof	essional Practice Consulting Construction				
	Independent	CIE Senior Member						
	Practice		m	anagerial position	n n	mong which S(+) years on		
			be	een listed in the "E	Expert F	Recommendation Databank" of		
H	General Engineerin	lg ,	u u					
3	Experience	Years		ivionths (	laimeo	a (win. 7 years)		
4	2 Years of Significan Experience	ntYears		Months (	Claimed	d (Min. 2 years)		
	3 Elective	Total Number of Elective	e Expe	eriences Claimed		( Circle Min. 3 codes)		
5	Experiences Claime	ed Code No. O-1- a, b, o	c, d	O-2- a, b,	с	O-3- a, b		
Ш		Code No. O-4- a, b	0-5	5-a, b, c	0-6- a	, b, c, d, e		
6	Summary of CPD	TotalCro	edit-H	lours(CH) Admitte	ed, in	cluding		
H	Code of Fthics	Category ICH;	Cate		L⊟; Ci of Si¤n	ategory IIICH ature		
	hereby declare that		Ne ar		t and	will assume all consequence		
aı	nd responsibilities ar	isen out as a result of any unt	rue st	tatement made in	the su	bmitted documents.		
	Submitted by (Signat	ture of Applicant)				Date		
D	ate of Application			Checked by				
R	eceived	DD/ MN	1/YY	Administrator				

Form 2: Personal Information									
			Perso	onal Par	ticulars				
Name (English)				Give					
Nai	me (Chinese)					<u> </u>			
Dat	e of Birth						2 inch photo		
					DD/MM/	'YY (in A.D.)	(Taken within last 2 months)		
A.66		(English	)						
ΑΠ	lilation								
		(Chinese	e, if available)						
Pos	ition*	(English	and Chinese)						
		LIIGIISII	and ennesey						
Business Address		(English and Chinese)							
Но	me Address								
Bur	inoss Tol	(English	(English and Chinese)			Mahila nhana			
Ho	me Tel.		Fax				WODIIe	phone	
			Educat	tion Bac	kground				
			Name of Academic Graduation Year						
	Department		institutio	n	(in A.D.)		De	egree Conferred*	
	Pr	ofessio	nal Qualification	n & Inde	pendent	Practice	( <b>0</b> or <b>0</b>	)	
•			Discipline	Yea	Year (in A.D.) Issue		d by	Certificate No.	
Ŭ	Qualification Exami	nation							
	Passed* (考試及格	證書)							
	Professional Engineer								
	Consulting - Professior		└──────						
	-Discipline:		-Number: -Expired date:				DD/MM/YY (in A.D.)		
□Construction - Date of Approved Letter Received*(營造業專任工程人員)									
			T					DD/MM/YY (in A.D.)	
	CIE Senior Member	*	Accumulated working experience*: (				(years)		
0	CIE M'ship No Since:		Accumulated experience on Managerial Position*:				:	(years)	
			been listed in the "Expert Recommendation Databank" of the PCC*					f the PCC*	

Note: \* Certified photo copy to be attached.

Form 3: General Engineering Experience Report										
Name of Applicant			Signati		Signature					
(in PRINT)						Signature				
Organization worked				Organization work		rked				
Starting Month					Ending Month					
Sum of Engineering				MM YY ( <u>in</u> A.D.) - MM YY ( <u>in</u> A.D.)					<u>1</u> A.D.)	
Experience			Years Months							
Remarl	ks: 1. Mir	nimum 7 ye	ears practic	al experience in relate	d eng	ineering fields	since a	gradua	ation is requ	ired.
	2. Des	scribe in a r	retrospectiv	ve order, beginning wit	th the	most recent o	ne.			
	3. Use	e one sheet	for each o	rganization.	. 1 . 2	2 fa all	_			
	4. Plea	ase fill Out	the Work M Table 5-1	of Attachment 5 for fil	9. 1, 2 ling o	, 3 for all work ut Code Numb	S. er			
	6. Atta	ach certific	ates in list	if available.	ing o		C1.			
Work	Code	Starting	Ending					•!~··	Nature of	Position
No.	No.	Month	Month	th		Location		work	/Title	
1										
2										
3										
4										
5	C-1-a									
6										
7										
8										
9										
	Certifying Organization and Attester									
Certifying Organization										
Address										
	Atteste (in PRIN	er T)				Signature				
Relat	ionship of to Applic	f Attester ant	Date of Signature							
	Telepho	ne			E-Mail					

	Form 4: Two	o (2) Years of Signif	ficant Experie	nce	
Name of		Project Name			
Applicant		(if available)			
Work No.		Code No.		Position/	
(refer to Form 3)		(refer to Table 5-1)		Title	
				Period	
Starting Month	MM/YY (in A.D.)	Ending Month	MM/YY (in A.D.)	(months)	
• Describe in details (4) Engineering judg 50-200 words. If space	s of your: (1) Persona ments made; and (5) se is not enough, extra	l contribution and respon ) Impact generated by su a pages may be added and	sibilities; (2) Probl uch solution and ju d attached hereund	ems faced; (3 udgments. F der.	) Solution found; Please use about
Applicants are urged projects they have ex	to describe efforts a ecuted.	t complying with require	ments stated in se	ection B2, if a	pplicable for the
<ul><li>If necessary, use a</li></ul>	nother sheet for othe	r organization to fulfill rec	quirement.		
	Certi	fying Organization ar	nd Attester		
Certifying Orga	nization				
Address					
Attester (in PRINT			Signature		
Relationship of A	, ttester to		Date of		
Applican	t		Signature		
Telephon	e		E-Mail		

Form 5: Three (3) Elective Experience Claimed									
		Project Name							
Name of Applicant		(if available)							
Work No.		Code No.		Position/					
(refer to Form 3)		(refer to Table 5-2)		Title					
				Period					
Starting Month	MM/YY (in A.D.)	Ending Month	MM/YY (in A.D.)	(months)					
One sheet for one proj	ect.								
Certifying Organization and Attester									
Certifying									
Address									
Attester			Signatura						
(in PRINT)									
Attester to Applicant			Signature						
Telephone			E-Mail						

# Form 6: Summary of CPD Activities Claimed for Year \_\_\_\_\_

Referring to Attachment 6: Criteria of Continuing Professional Development, use the table below as a summary of those records.

Relevant certificates shall be also attached for review. (Use one sheet for each year)

Activity	Date	Category	Туре	CPD Activity/ Topic/Provider	Actual Hours	Credit-Hours	Certificates Attached
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
Total CP	D Credit-I	Hours for Cat	tegory I				
Total CP	D Credit-I	Hours for Cat	tegory II				
Total CP	D Credit-I						
Total CP	D Credit-	Hours for yea	ar				
Name of	Applica	nt					

# Form 7: Code of Ethics for Chinese Taipei APEC Engineer/IntPE

Those admitted as qualified APEC Engineers & International Professional Engineers (IntPEs) within the Chinese Taipei economy shall adhere to the fundamental principles of their respective profession guided by the norms of conduct consistent with following principles of ethics:

### 1. Responsibility to the Society

- <u>Strictly Adhere to the Law</u>: comply with all laws and regulations, to ensure public safety and health, and to enhance public welfare.
- <u>Respect Nature</u>: actively contribute to sustainable development\*, protect the natural environment and ecological balance, treasure all natural and other resources and seek their most efficient and waste free use.
- <u>Promote Diversity and Inclusion</u>: be committed to inclusive communication which values gender equality and embraces stakeholders from diverse cultural, societal, ethnic, and other backgrounds and advocates mutual understanding and respect.

### 2. Responsibility to the Profession

- <u>Dedication to Professionalism and Duty</u>: consistently apply professional knowledge, adopt good engineering practices, and fulfill professional duty.
- <u>Be Creative and Open to Lifelong Learning</u>: acquire the latest technological knowledge while at the same time seeking to stay informed on non-technical issues (such as ethical, sustainability, legal, political, economic, societal), strive to improve skills and raise the standards of product quality.
- Ensure that they only undertake tasks for which they are competent

### **3.** Responsibilities to the Client

- <u>Render Services with Integrity</u>: serve with all competency and dedication, protect with professional attention the interests of the Client, while at the same time remembering the interests of society and sustainability.
- <u>Faithfully Seek Mutual Benefits</u>: establish mutual trust, secure win-win consensuses, realize the role of engineering as a force for good.

### 4. Responsibilities to the Colleagues

- <u>Cooperate with Specialists in Other Fields</u>: work proactively and inclusively with professionals from relevant technical and non-technical disciplines, emphasize coordination and cooperation using various technical tools and media, continuously improve efficiency of execution.
- <u>Ensure the Continuity of the Professional Contributions</u>: dedicate to self-encouragement and mutual strengthening for advancement of engineering

practice, pass on technical experiences to and encourage younger professionals.

\* As represented by the 17 UN Sustainable Development Goals (UN-SDG)

I shall obey and be bound by the above Code.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(END OF APPLICATION FORMS)