INTERNATIONAL PROFESSIONAL ENGINEERS AGREEMENT ASSESSMENT STATEMENT

By

CHINESE TAIPEI

IPEA MORNITORING COMMITTEE

Revised on 5 June 2024

CONTENTS

CHINESE TAIPEI

International Professional Engineers Agreement

ASSESSMENT STATEMENT

Revised on 5 June 2024

PREFACE

Chinese Taipei became the 144th member of the World Trade Organization (WTO) in January 2002 devoting itself as one of contributing partners in the global economy. In May of the same year, the Public Construction Commission (PCC, a central government unit in charge of registration of professionals) in Chinese Taipei designated a special task force for studying the reciprocity of licensed engineers among the international community. One year later in 2003, the APEC Engineer of Asia-Pacific Economic Cooperation (APEC) accepted Chinese Taipei as a provisional member. Through continued efforts made in the following two years, Chinese Taipei was admitted as a full member on 10 June 2005 by the APEC Engineer Coordinating Committee.

To apply for the IPEA Membership, Chinese Taipei has, through both official channel of IPEA and private contacts with some member countries, collected relevant information, such as Constitution, organization and application procedure of IPEA, information regarding preparation of assessment report, etc. Meanwhile, the Chinese Institute of Engineers (CIE) was authorized by PCC on 3 June 2008 to establish the "Chinese Taipei IPEA Monitoring Committee (the CTIMC)" to serve as the representative of Chinese Taipei for matters relating to the IPEA and the International Register.

In March 2008, the CTIMC submitted the application for Provisional Member to IPEA and was accepted at the Meeting of IPEA in Singapore on 24 June 2008. To establish and maintain a full functional IPEA International Register of Professional Engineers within territory of Chinese Taipei, the CTIMC has prepared and submitted herewith this Assessment Statement and obtained an "interim authorization" in June 2009 for establishment of an IPEA Register, pursuant to the stipulations of the IPEA Constitution and Schedule 3. It is strongly intended by Chinese Taipei to obtain a Full Membership of IPEA, after its assessment system is duly reviewed and accepted

by a Review Team dispatched by IPEA according to Schedule 8 of the Constitution.

For assessing the quality of engineering educational programs in Chinese Taipei, it is especially pointed out for reference that the Institute of Engineering Education Taiwan (IEET), being a non-governmental and operated privately, was accepted in June 2007 as a full member by the Washington Accord (WA). For details of IEET, please refer to Attachment 2.

This Assessment Statement outlines the framework, procedures, and logistics for assessing the qualification of IPEA professional engineers in Chinese Taipei. This document could also, if accepted, be used as a secure benchmark for mutual recognition or exemption of further qualification examination for professional engineers already registered in other IPEA economies. This document was prepared mainly based on the Constitution and Procedures established and published by IPEA, with the APEC Assessment Statement taken as a reference. The main differences between IPEA and APEC Engineer are their constitutions and accreditation mechanisms for higher education system.

The disciplines of the IPEA Engineers proposed by the Chinese Taipei for application at this time are limited to Civil, Structural, Geotechnical, Electrical, Environmental, Hydraulic, Mechanical, Soil and Water Conservation, Surveying, as well as Applied Geology. Other disciplines will be applied in due course, when deemed necessary.

This Assessment Statement has been developed in accordance with Schedule 2, “Guidelines on Criteria and Procedures” stipulated in the Constitution of IPEA. The Committee intends to review this Statement from time to time as the situation may warrant under assistance and guidance of the IEA.
The following parts are covered in this Assessment Statement.

(1) Part A Chinese Taipei IPEA Monitoring Committee
(2) Part B Assessment Mechanisms
(3) Part C Engineering Disciplines
(4) Part D Application Guidelines

PART A CHINESE TAIPEI IPEA MONITORING COMMITTEE

According to the Professional Engineers Act of Chinese Taipei, the authority in charge of professional engineers register at the central government level is the PCC of Executive Yuan.

To apply for a Full Membership of the IPEA, the CIE has been solely authorized by the PCC to establish the "CTIMC", to serve as the representative of Chinese Taipei for matters relating to the IPEA and the International Register, which include undertaking of all required formalities for membership application and developing this Assessment Statement for submission to the Coordinating Committee of IPEA.

A.1 Main Tasks of the CTIMC

The CTIMC, if admitted as an Authorized Member of IPEA, shall conduct, or gets involved in following activities related to:

- **Participation in the affairs of the International professional Engineers 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 IPEA 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 IPEA Engineer qualification between IEA members.

- **Assessment and Registration of IPEA Engineers within the Chinese Taipei**
  Local eligible engineers seeking entry to IPEA Engineer Register within the Chinese Taipei will be prudently assessed and registered, according to the Criteria and Procedures contained in this Assessment Statement, after it is accepted by the IEA.

- **Assistance for signing Bilateral or Multilateral Agreements for Practice of IPEA Engineers:**
  Assistance will be extended by the CTIMC to expedite Chinese Taipei to

sign agreements facilitating the IPEA Engineers registered in other economies to practice in Chinese Taipei on reciprocal basis.

- **Keeping the IPEA Executive Committee informed of Change in Registration Criteria, Policies, or Procedures**
  In case, there are needs of some changes or revisions in Registration Criteria, Policies, or Procedures previously reported to the Executive Committee, the CTIMC will report to the Executive Committee for such changes or revisions.

- **Maintaining valid records of register of IPEA Engineers in Chinese Taipei**
  Valid records of IPEA Engineers assessed and registered in Chinese Taipei, as well as their individual CPD and ethical records will be maintained by the CTIMC for report to the IEA, or for access of, and exchange with other economies.

A.2 Members of the Committee

According to the by-laws, the Committee comprises of twenty-one (21) to twenty-nine (29) Committee members and two (2) Supervisors. The Committee presently has twenty-nine (29) members in total and two (2) supervisors as listed hereafter. All of them are appointed jointly by the Government and the CIE, nominated or elected from engineering associations and institutes, academic institutions and government agencies concerned. The name list of current members of CTIMC is as listed in **Annex 1**.

(Below is intentionally left blank)

A.3 Organization of Chinese Taipei IPEA Monitoring Committee

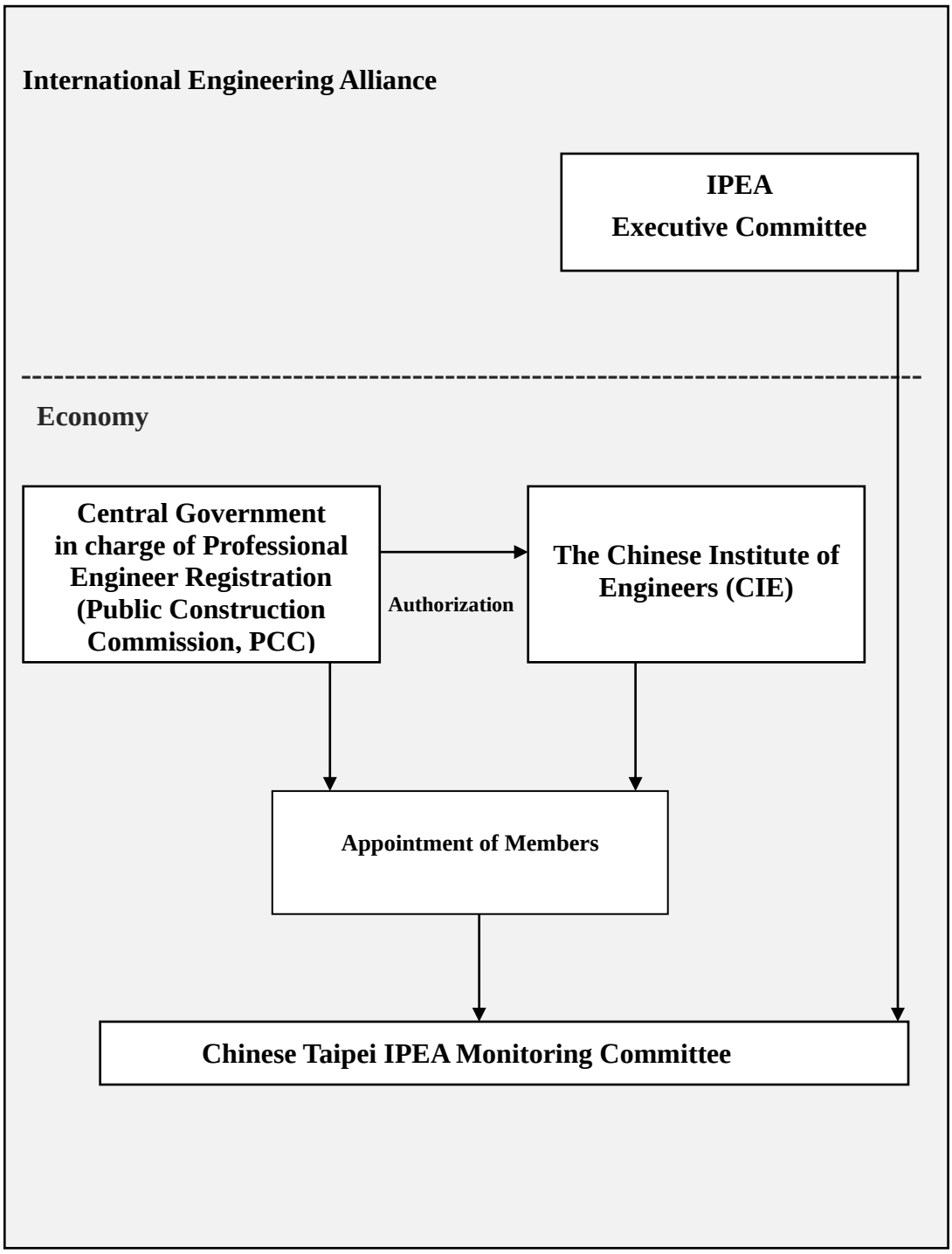

Fig. 1 Authority Diagram of the Chinese Taipei IPEA Monitoring Committee

The overall organization structure of Chinese Taipei IPEA Monitoring Committee of is shown in Fig. 2 below:

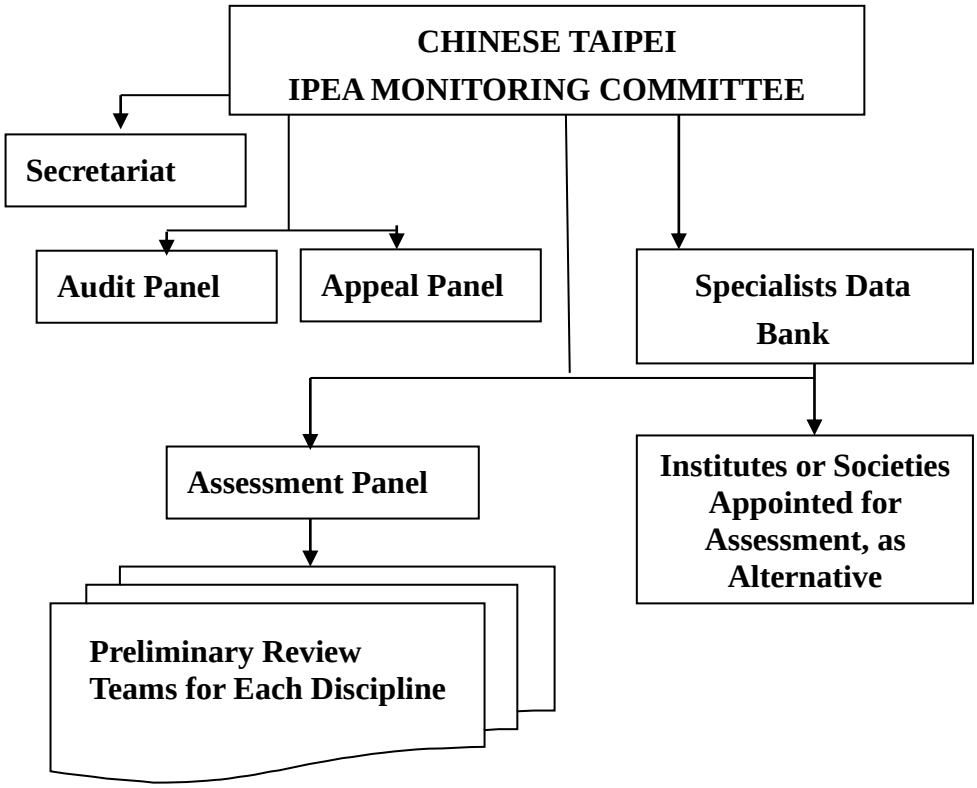

Fig. 2 Organization Chart of the Chinese Taipei IPEA Monitoring Committee

A.4 Operation

The Government has authorized the CTIMC as a sole non-government body for exclusively handling all matters regarding to the International Professional Engineers Agreement. Furthermore, the operation of the CTIMC is independent of the Government and the CIE, only subject to monitoring of the Internation Engineering Alliance in the manner stipulated in the IEA Competency Agreement. For detail of the By-Laws of the CTIMC, please refer to Attachment 3.

A.5 Establishment of Assessment Panels 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.

Office of Chinese Taipei IPEA Engineer Monitoring Committee
Address: 3F, No. 1, Ren-Ai Rd., Sec. 2, Taipei, Taiwan 100, R.O.C.
Tel: +886-2-23925128
Fax: +886-2-23973003
Email: apecengineer@cie.org.tw
http://www.apec-ipea.org.tw

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

According to the IEA Competency Agreements, in order to be listed on an IPEA Engineer Register, applicants must be of engineering college graduates holding an engineering degree accredited by an organization holding full membership of, and acting in accordance with the terms of, the Washington Accord.

The "**Institute of Engineering Education Taiwan (IEET)**" was established in June 2003 for performing engineering educational accreditation within Chinese Taipei, and became a signatory member of the Washington Accord (WA) in June 2007.

(I) Higher Education Degrees Accredited by IEET

If he/she has successfully completed his/her higher education and obtained degree from academic institutions with education programs duly accredited by the IEET;

The CTIMC will assess the educational achievement of him/her, only based on the newly updated list of programs successfully accredited and officially announced by the IEET. The said list is the outcome of a strict assessment conducted by the IEET based on criteria, rules, and procedures of the Washington Accord.

(II) Recognition of Higher Education not Covered under (I)

If he/she has successfully completed his/her higher education and obtained degree before IEET accreditation, his/her education achievement shall be subject to individual assessment by IEET, to examine whether or not the applicant's course works are substantially equivalent to the graduates of IEET accredited programs.

If successfully accredited, IEET will issue individually a certificate for the assessment by the CTIMC.

Accreditation on education achievement of applicant shall be strictly carried out by the CTIMC based on assessment results of IEET.

B.2 Assessment Mechanisms 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 IPEA 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.

(I) Passing the Professional Qualification Examination as described in **Attachment 4**, 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 on Compulsory Units

Table A4-1 listed in Attachment 4 specifies the following two Compulsory Units, which must be all addressed by the applicants; otherwise, the application documents shall be deemed incomplete and rejected.

■ A minimum of 7-year experiences after graduated from university (Using Application Form 3 enclosed hereunder); and

■ At least 2 years out of 7-year experiences, being responsible of significant engineering works, among which one Unit of competent levels shall be selected and claimed by the applicant for application.

(II) Assessment on 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 IPEA 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.

(1) For IPEA 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 IPEA Engineer Renewal:
IPEA 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 IPEA Engineer qualification.

B.5 Code of Conduct

All applicants seeking registration as IPEA 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 IPEA 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 of IPEA Engineers

The Committee may conduct an audit of all the documents relevant to an applicant's IPEA 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 IPEA 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 IPEA Engineer; (3) Qualification required as an IPEA 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 IPEA 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 Code of Ethics for Chinese Taipei IPEA Engineers

Attachment 8 Application Guidelines

Attachment 1

By-Laws of Chinese Taipei IPEA Engineer Monitoring Committee

Amended by the 62nd 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 IPEA 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 IPEA Engineers.

Article 2 The purposes for the establishment of the Committee are to develop and maintain register of local IPEA Engineers; to promote mutual recognition of IPEA Engineers among the member economies, and to assist them in practicing business abroad so as to elevate the international status of local IPEA Engineers.

Article 3 The major responsibilities of the Committee as commissioned shall be:
(1) To conduct local IPEA Engineers qualification recognition under the authorization of the IEA;
(2) To collaborate closely with the IEA in managing matters relating to IPEA 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 IPEA 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 IPEA Engineers.
(5) To register and conduct the practice of foreign IPEA Engineers recognized in other economies, according to bilateral or multilateral agreements signed.
(6) To maintain contacts with IPEA Engineer Monitoring Committees of other economies and exchange with them the information and materials related to IPEA Engineers.

(7) To handle any other business related to IPEA 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 IPEA 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 IPEA 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 http://www.ieet.org.tw/en.

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.

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=Menu&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=Menu&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 (https://www.pcc.gov.tw).

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 IPEA 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 experience after having graduated from an academic institution	C-1-a	Full 7-year practical experience in related engineering fields since graduation from an academic institution by the time of submittal of the application.
At least 2 years out of 7 years responsible for	At least one of the following Units of the Competency Level is selected and claimed.	

significant engineering work	C-2-a	Planned, designed, coordinated and executed a 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.

- Planning or Design
- Project Management or Construction Supervision
- Contribution to Engineering Practice
- Research and Development
- Contribution to the Public Works Sector
- 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.

Table 5-2 Requirements for Elective Units of Experience

Fields Claimed	Code No.	Units of Acceptable Competent Levels
Planning or Design	O-1-a	Performed good planning or design with outcomes and cost estimate meeting requirements of clients
	O-1-b	Developed or adopted effective solutions for resolving technical problems encountered during planning or design

Fields Claimed	Code No.	Units of Acceptable Competent Levels
	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
Project Management or Construction Supervision	O-2-a	Established and performed effective programs at site for controlling the construction qualities intended for the project, and for maintaining effectively the job-site safety
	O-2-b	Identified risks involved in the project construction with associated impacts, and carried out the risk mitigation plan
	O-2-c	Strictly controlled the construction schedule, or adopted schedule acceleration measures for avoiding schedule slips
Contribution to Engineering Practice	O-3-a	Developed or applied innovation, new concept, new principles, new codes, standards or practice in engineering practice
	O-3-b	Developed and acquired patent rights for new concept, new methods, and new products during implementation of the project
Research and Development	O-4-a	Carried out or joined research and development programs sponsored by private or public sectors with outcome applied for upgrade of engineering practice
	O-4-b	Acquired patent right as an outcome of the research and development program
Contribution to Public Works Sector	O-5-a	Joined public hearings for help develop or establish governmental policies regarding public work

Fields Claimed	Code No.	Units of Acceptable Competent Levels
	O-5-b	Advocated on behalf of engineering associations to influence the decisions that have engineering implication
	O-5-c	Served as committee members or task force panelists for government for resolving engineering related problems, assessments, or arguments
Promotion of Engineering Profession	O-6-a	Advocated innovative engineering solutions
	O-6-b	Led and promoted ethical decisions
	O-6-c	Led and managed multi-disciplined team for close cooperation for completion of the work
	O-6-d	Sought or established engineering business opportunities
	O-6-e	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 IPEA 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 IPEA Engineer Register Renewal:

IPEA 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.

Table 6-1 Credit-hours for CPD Activities

Activities	Ways of Participation	Domestic/ International	Credit-hours	Maximum Credit-hours Limited	Remark
Type A Seminars; Conferences; Workshops or Special	As Participant	Domestic	1/Actual Hour	None	Verified by Certificate
		International	3/Actual Hour		

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

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

<table>
<tr><th>Activities</th><th>Ways of Participation</th><th>Domestic/ International</th><th>Credit-hours</th><th>Maximum Credit-hours Limited</th><th>Remark</th></tr>
<tr><td rowspan="2">Type A
Participation in local or International Committee or Society</td><td rowspan="2">As a member of committee or in leadership positions</td><td>Domestic</td><td>10/Each Appointment</td><td rowspan="2">Maximum for this category is 30</td><td rowspan="2">Verified by Letters/ Certificate</td></tr>
<tr><td>International</td><td>20/Each Appointment</td></tr>
<tr><td rowspan="4">Type B
Professional Training Programs; Accredited Lectures, Seminars, Conferences; Workshops or Special Topic Lectures</td><td rowspan="2">As Participant</td><td>Domestic</td><td>1/Actual Hour</td><td rowspan="2">None</td><td rowspan="4">If more than one, then shared equally by Co-Authors or Co-Translators</td></tr>
<tr><td>International</td><td>3/Actual Hour</td></tr>
<tr><td rowspan="2">As Presenter/ Lecturer</td><td>Domestic</td><td>10/Actual Hour</td><td rowspan="2">None</td></tr>
<tr><td>International</td><td>30/Actual Hour</td></tr>
<tr><td rowspan="2">Type C
Technical Investigation or Assistance</td><td>As team members or participants</td><td>Both</td><td>5/Per Event or project</td><td>None</td><td rowspan="2"></td></tr>
<tr><td>As principal investigator/leader</td><td>Both</td><td>10/Per Event or project</td><td>None</td></tr>
</table>

** IPEA 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.*

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

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

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	2 /Per Paper	6/ Per Year	
		International	5 /Per Paper	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/ Per Year	Technical solution is found
Type I Professional Membership	As Participant	Both	2/ organization		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

** IPEA 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

- Strictly Adhere to the Law: comply with all laws and regulations, to ensure public safety and health, and to enhance public welfare.
- Respect Nature: 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.
- Promote Diversity and Inclusion: 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

- Dedication to Professionalism and Duty: consistently apply professional knowledge, adopt good engineering practices, and fulfill professional duty.
- Be Creative and Open to Lifelong Learning: 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

- Render Services with Integrity: 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.
- Faithfully Seek Mutual Benefits: establish mutual trust, secure win-win consensuses, realize the role of engineering as a force for good.

4. Responsibilities to the Colleagues

- Cooperate with Specialists in Other Fields: 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.

Ensure the Continuity of the Professional Contributions: 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

Commenced in 2001, the Engineers Mobility Forum agreement is a multi-national agreement between engineering organizations in the member jurisdictions, which creates the framework for the establishment of an international standard of competence for professional engineers, and then empowers each member economy to establish a section of the International Professional Engineers Register.

As a counter part to the Coordinating Committee, each participating economy is also required to organize and establish, when participating as a member, an IPEA Monitoring Committee in its own economy. The Monitoring Committee will be vested with authority to assess and approve the registration of the IPEA Engineers within its own economy according to the Assessment Statement, which has been accepted by the Coordinating Committee, when applied for admission as a member of the IPEA. The assessment operation shall be further subject to monitor by the Coordinating Committee in the manner stipulated in the IPEA Constitution and Rules.

Following the requirements prescribed in the IPEA Constitution and Rules, both the Central Government (the Government) in charge of registration of local professional engineers in the Chinese Taipei, and the Chinese Institute of Engineers (the CIE) jointly appointed 23 members to establish the Chinese Taipei IPEA Monitoring Committee (the CTIMC) These members are appointed from universities, experts, professionals associations, industrials and relevant government agencies.

The CTIMC is established within the CIE and authorized to be the sole body for carrying out all activities related to IPEA Engineer, including assessment on qualification and registration of Chinese Taipei IPEA Engineers.

The mechanisms for assessment of the eligibility and competency of IPEA Engineers shall comply fully with the criteria prescribed in the Assessment Statement, which has been prepared based on the IPEA Constitution and Rules, and accepted by the Coordinating Committee.

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

These Guidelines are mostly generic in nature applicable for all engineering disciplines with particular terms to be specifically added, where necessary, for Civil, Structural, Geotechnical, Electrical, Environmental, Hydraulic, Mechanical as well as Soil and Water Conservation engineering, which are intended by the CTEIMC for application of assessment at present.

These 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 web-site of the CTIMC for use of the applicants accordingly.

2. Definition of IPEA Engineer

According to the IEA Competency Agreements, IPEA 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 IPEA 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 IPEA Engineers are able to provide their professional services across the boundaries of these agreement-signed economies.

3. Qualification Required as an IPEA Engineer

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

The applicant shall have:

(1) 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 IPEA 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:
1. personal contribution and responsibilities
2. problems faced
3. solutions found
4. engineering judgments made
5. 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 IPEA 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

If he/she has successfully completed his/her higher education and obtained degree before IEET accreditation, his/her education achievement shall be subject to individual assessment by IEET, to examine whether the applicant's course works are substantially equivalent to the graduates of IEET accredited programs.

If successfully accredited, IEET will issue individually a certificate for the assessment by the CTIMC.

Accreditation on education achievement of applicant shall be strictly carried out by the CTIMC based on assessment results of IEET.

(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 IPEA 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):

1. For Application to become an IPEA Engineer:
   Within two years before submittal of the application, the total credit-hours required for each applicant shall be not less than 50.

2. For Renewal of IPEA Engineer Qualification:
   IPEA 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 IPEA 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 IPEA 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 IPEA Engineer Certificate, and the applicant shall be added to the IPEA Engineer Register.

7. Assessment for Renewal of Registration

IPEA 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 IPEA 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 IPEA 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 / Fees	**Application** *1	**Registration** *2	Renewal *3
	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. IPEA 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 IPEA 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

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

No.	Position	Name	Position/Organization
1	Chairman	WANG, Tze-An, Andrew	VP, CECI Engineering Consultants, Inc., Taiwan
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 Engineer Associations

No.	Position	Name	Position/Organization
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
23	Member	SU, Mei-Hsin	Senior Associate General Manager, CECI Engineering Consultants Inc., Taiwan

No.	Position	Name	Position/Organization
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	LUO, Tian Jiann	Secretary General, 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	
10	Advisor	Taff TU	

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

Revised on 25 March 2024

ANNEX 2

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)

I hereby confirm that I want to apply for:

☐ **APEC Engineer** ☐ **International Professional Engineer (IntPE)**

Discipline Applied		**Application Number**	
Name of Applicant (English, in PRINT)		**Signature** (English)	
Name of Applicant (Chinese, in PRINT)		**Signature** (Chinese)	

According to the requirements set forth in the Guidelines issued by Chinese Taipei Monitoring Committee, I have prepared and submitted herewith this Application Documents ***in TRIPLES*** for applying register with the Committee.
The Application Documents include the following (please check; if enclosed):

	Forms	Items Checked		
1	**Self-assessment**	☐ Complete		
2	**Personal Information**	☐ Complete		
	Higher Education (Bachelor Degree) Graduation Year _____	**APEC Engineer**	**IntPE**	
		☐Local: ☐Accredited Program ☐National University/College ☐Private University/College ☐Engineering College Post Graduate Degree without bachelor Degree	☐Local: Education Criteria for Chinese Taipei IntPE: Higher Education Degrees Accredited by IEET (a signatory member of the Washington Accord in Taiwan); based on the newly updated list of programs successfully accredited and officially announced by the IEET.	
		☐Overseas: ☐FEIAP ☐Washington Accord ☐1st Step Exam of JCEA ☐Eng. Exam by US	☐Overseas: With Programs Duly Accredited according to Washington Accord	
	Professional Qualification & Independent Practice	❶☐National Exam. and Professional Practice	Discipline **related to applied discipline only*	Year Passed (in A.D.)
			Professional Practice ☐Consulting ☐Construction	
		❷☐CIE Senior Member	☐ 10(+) years experiences in consulting firm or construction company, among which 5(+) years on managerial position	
			☐been listed in the "Expert Recommendation Databank" of the Public Construction Commission	
3	**General Engineering Experience**	_____ Years _____ Months Claimed (Min. 7 years)		
4	**2 Years of Significant Experience**	_____ Years _____ Months Claimed (Min. 2 years)		
5	**3 Elective Experiences Claimed**	Total Number of Elective Experiences Claimed _____ (Circle Min. 3 codes)		
		Code No. O-1- a, b, c, d O-2- a, b, c O-3- a, b Code No. O-4- a, b O-5- a, b, c O-6- a, b, c, d, e		
6	**Summary of CPD Activities Claimed**	Total _____Credit-Hours(CH) Admitted, including Category I _____CH; Category II_____CH; Category III_____CH		
7	**Code of Ethics**	☐ Signed ☐ Date of Signature		

I hereby declare that all documents submitted above are true and correct, and will assume all consequence and responsibilities arisen out as a result of any untrue statement made in the submitted documents.

Submitted by (Signature of Applicant) **Date**

Date of Application Received	DD/ MM/YY	**Checked by Administrator**	

Form 2: Personal Information

Personal Particulars

Name (English)	Given Name + Family Name	2 inch photo (Taken within last 2 months)
Name (Chinese)		
Date of Birth	DD/MM/YY (in A.D.)	
ID No.		
Affiliation	(English)	
	(Chinese, if available)	
Position*	(English and Chinese)	
Business Address	(English and Chinese)	
Home Address	(English and Chinese)	

Business Tel.		**Fax**		**Mobile phone**	
Home Tel.		**e-mail**			

Education Background

Department	Name of Academic institution	Graduation Year (in A.D.)	Degree Conferred*

Professional Qualification & Independent Practice (❶ or ❷)

❶		Discipline	Year (in A.D.)	Issued by	Certificate No.
	Qualification Examination Passed* (考試及格證書)				
	Professional Engineer Certificate* (技師證書)				
	☐Consulting - Professional Practicing License* (技師執業執照) -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) DD/MM/YY (in A.D.)				
❷	CIE Senior Member* CIE M'ship No._____ Since:	Accumulated working experience*:_____ (years) Accumulated experience on Managerial Position*:_____ (years)			
		☐been listed in the "Expert Recommendation Databank" of the PCC*			

Note: * Certified photo copy to be attached.

Form 3: General Engineering Experience Report

Name of Applicant (in PRINT)		**Signature**	
Organization worked (English)		**Organization worked** (Chinese)	
Starting Month	MM YY (in A.D.)	**Ending Month**	MM YY (in A.D.)
Sum of Engineering Experience	Years Months		

Remarks:
1. Minimum 7 years practical experience in related engineering fields since graduation is required.
2. Describe in a retrospective order, beginning with the most recent one.
3. Use one sheet for each organization.
4. Please fill out the Work No. in serial manner, i.e. 1, 2, 3 for all works.
5. Please refer to Table 5-1 of Attachment 5 for filling out Code Number.
6. Attach certificates in list if available.

Work No.	Code No.	Starting Month	Ending Month	Project Name (if available)	Location	Nature of work	Position /Title
1	C-1-a						
2							
3							
4							
5							
6							
7							
8							
9							

Certifying Organization and Attester

Certifying Organization			
Address			
Attester (in PRINT)		**Signature**	
Relationship of Attester to Applicant		**Date of Signature**	
Telephone		**E-Mail**	

Form 4: Two (2) Years of Significant Experience

Name of Applicant		**Project Name (if available)**			
Work No. (refer to Form 3)		**Code No.** (refer to Table 5-1)		**Position/ Title**	
Starting Month	MM/YY (in A.D.)	**Ending Month**	MM/YY (in A.D.)	**Period (months)**	

❶ Describe in details of your: (1) Personal contribution and responsibilities; (2) Problems faced; (3) Solution found; (4) Engineering judgments made; and (5) Impact generated by such solution and judgments. Please use about 50-200 words. If space is not enough, extra pages may be added and attached hereunder.

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

❷ If necessary, use another sheet for other organization to fulfill requirement.

Certifying Organization and Attester

Certifying Organization			
Address			
Attester (in PRINT)		**Signature**	
Relationship of Attester to Applicant		**Date of Signature**	
Telephone		**E-Mail**	

Form 5: Three (3) Elective Experience Claimed

Name of Applicant		**Project Name (if available)**			
Work No. (refer to Form 3)		**Code No.** (refer to Table 5-2)		**Position/ Title**	
Starting Month	MM/YY (in A.D.)	**Ending Month**	MM/YY (in A.D.)	**Period (months)**	

❶ Describe in details of your: (1) Personal contribution and responsibilities; (2) Problems faced; (3) Solution found; (4) Engineering judgments made; and (5) Impact generated by such solution and judgments. Please use about 50-200 words. If space is not enough, extra pages may be added and attached hereunder.
❷ One sheet for one project.

Certifying Organization and Attester

Certifying Organization			
Address			
Attester (in PRINT)		**Signature**	
Relationship of Attester to Applicant		**Date of 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	Type	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 CPD Credit-Hours for Category I							
Total CPD Credit-Hours for Category II							
Total CPD Credit-Hours for Category III							
Total CPD Credit-Hours for year _____							
Name of Applicant							

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

- Strictly Adhere to the Law: comply with all laws and regulations, to ensure public safety and health, and to enhance public welfare.
- Respect Nature: 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.
- Promote Diversity and Inclusion: 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

- Dedication to Professionalism and Duty: consistently apply professional knowledge, adopt good engineering practices, and fulfill professional duty.
- Be Creative and Open to Lifelong Learning: 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

- Render Services with Integrity: 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.
- Faithfully Seek Mutual Benefits: establish mutual trust, secure win-win consensuses, realize the role of engineering as a force for good.

4. Responsibilities to the Colleagues

- Cooperate with Specialists in Other Fields: 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.
- Ensure the Continuity of the Professional Contributions: 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)