

APEC ENGINEER REGISTER PERU



ASSESSMENT STATEMENT

apecengineerperu.cip.org.pe

**Peruvian Engineers Association
Colegio de Ingenieros del Perú - CIP**



2024

APEC ENGINEER REGISTER - PERU
ASSESSMENT STATEMENT
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INTRODUCTION

In order to promote and facilitate mobility of qualified engineers among APEC member economies, the APEC Human Resources Development Working Group Steering Committee for Mutual Recognition of Professional Engineers developed the initiative for the APEC Engineer Register intending to recognize the equivalences in qualifications and experiences of professional engineers, facilitating the mobility of engineers and engineering services in the APEC region.

The Peruvian Engineers Association (Colegio de Ingenieros del Peru CIP), as the authorized institution for administering, licensing and overseeing the practice of engineering in Peru, has promoted and led the process for the creation of an APEC Engineer Register Peru with a Monitoring Committee to fulfill the following duties:

- Develop and maintain a Register of APEC Engineers in Peru in accordance with the criteria, procedures and provisions approved by the APEC Engineer Coordinating Committee.
- Accept and promote the APEC Substantial Equivalence in competence of all APEC Engineers, as well as the Mutual Exemption Framework.
- Function as a single point of contact on all matters relating to APEC Engineers and provides accurate and timely information regarding APEC Engineers.
- Perform other functions required for APEC Engineer Register related to the APEC Engineer Framework.

PART A. THE MONITORING COMMITTEE

The APEC Engineer Peru - Monitoring Committee is appointed by the Peruvian Engineers Association and it is composed by representatives from the following institutions:

- Peruvian Engineers Association
 - National Council
 - National Chapters of Engineering Disciplines
 - Advisory Board of Past National Chairmen

Peruvian Engineers Association - National CouncilWeb: www.cip.org.pe

Address: Av. Arequipa 4947, Miraflores, Lima 18, PERU

Telephone: 51-1-4463128 51-943936375

	Post	Name	Duty at Monitoring Committee
1	National Chairman 2025-2028	Jaime RUIZ, PE decano@cip.org.pe	President
2	National Vice-Chairman 2025-2028	Manuel BURGOS, PE vicedecano@cip.org.pe	Vice-President
3	APEC Engineer Peru - Secretariat	Antonio MORAN, PhD, PE amoran@ieee.org antoniomorancardenas@gmail.com	Secretary

Peruvian Engineers Association - National Chapters of Engineering DisciplinesWeb: www.cip.org.pe

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	Post	Name	Duty at Monitoring Committee
4	Civil Engineering Chapter	Ana RIOS, PE anariosconsultores@yahoo.es	Member
5		Nancy BARRENECHEA, PE nancybarrenechea@hotmail.com	Member
6		Renato MALAGA, PE rmalaga@ciplima.org.pe	Member
7	Electronics Engineering Chapter	Francisco MADRID, PE electronica@ciplima.org.pe	Member
8		Milagros ZEGARRA, PE milagros.zegarra@gmail.com	Member
9	Industrial and Systems Engineering Chapter	Alejandro CAMARENA, PE acamarena@cip.org.pe	Member
10		Wilder MEDINA, PE wmedinam@gmail.com	Member
11		Jose GONZALES, PE jgonzalesc@cip.org.pe	Member

Peruvian Engineers Association - Advisory Board of Past National Chairmen			
Web: www.cip.org.pe			
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Telephone: 51-1-4463128 51-943936375			
Post		Name	Duty at Monitoring Committee
12	Past National Chairman	Carlos Herrera, P.E. c.f.herrera@gmail.com	Member

The functions of President and Secretary of the Monitoring Committee shall be borne by the National Chairman and National Vice-Chairman of the Peruvian Engineers Association.

The appointment time for each member of the Monitoring Committee shall be the same as the period of time they hold the position in their home institution: for representatives of the Peruvian Engineers Association is three years.

The representatives of the National Chapters of Engineering Disciplines of the Peruvian Engineers Association act as an Expert Panel for examining and evaluating the qualifications, experience and professional trajectory of applicants for registration as APEC Engineers.

SECRETARIAT

The Secretariat of the APEC Engineer Register Peru directly reports to the National Chairman. The Secretariat Office is in charge of Antonio Moran, PhD, PE, who oversees all activities and issues related to the APEC Engineer Agreement.

Secretary	Antonio Moran, PhD, PE
Address	Colegio de Ingenieros del Peru Vice Decanato – Consejo Nacional Av. Arequipa 4947, Miraflores Lima 18, PERU
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Website	www.cip.org.pe

PART B. ASSESSMENT MECHANISMS

B.1. General Considerations

APEC Engineering Register in Peru is offered only to engineers licensed and registered as ordinary members by the Peruvian Engineers Association. In the following, the criteria and the process for licensing are presented.

In Peru, it is a statutory requirement to be registered and licensed in order to engage in the regulated practice of engineering. The Peruvian Engineers Association (Colegio de Ingenieros del Peru CIP) is the only non-governmental entity authorized by law to undertake the assessment, registering and licensing of Professional Engineers, as well to administer and overseeing the practice of engineering in the country. To remain licensed, registered engineers must practice engineering within the regulatory standards and norms established by the Peruvian Engineers Association.

The Peruvian Engineers Association offers two types of licensing: ordinary and temporary. Ordinary licensing is awarded to engineers graduated from Peruvian universities or with degree recognized or revalidated by the corresponding Peruvian education authority or university. Temporary licensing is awarded to foreign engineers graduated from foreign universities who will practice engineering in Peru usually for a short period of time. Only ordinary license holders are eligible for listing in the APEC Engineer Register Peru.

The requirements for ordinary licensing are:

- Bachelor degree in engineering awarded by an authorized university with recognized five-years engineering programs.
- Title of professional engineer awarded by an authorized university with recognized engineering programs after the approval of the defense of a relevant engineering project.
- Assessment and approval of graduate transcripts with special focus on transferred subjects. Transferring of subjects taken in institutions not recognized by the National Superintendence of University Education SUNEDU (maximum Peruvian university education authority) are not accepted.
- Pass an interview and oral evaluation by representatives of the corresponding engineering discipline chapter assessing the candidate practical experience, ability to communicate effectively, ethical behavior, understanding of engineering impact on society, public safety and environment, as well as knowledge of legal fundamentals regulating the practice of engineering.
- Participation in an induction and motivation session preparatory for swearing ceremony.
- Signed commitment to comply with the code of ethics of the Peruvian Engineers Association.

The requirements for temporary licensing are:

- Engineering degree (or engineering title) awarded by a degree-granting institution which has been approved and recognized by the national education authority in the home country.
- Assessment and approval of graduate transcripts and engineering curriculum taken in home university.
- Licensing for engineering practice in home country.
- Employment contract containing the terms, timing and functions to perform.
- Pass an interview and oral evaluation by representatives of the corresponding engineering discipline chapter assessing the candidate practical experience, ethical behavior, understanding of engineering impact on society, public safety and environment, and knowledge of legal fundamentals regulating the practice of engineering.
- Signed commitment to comply with the code of ethics of the Peruvian Engineers Association.

Temporary licensing is awarded for one year, renewable. Temporary license holders are ineligible for listing in the APEC Engineer Register Peru.

Licensed engineers are awarded a Certificate of Registration / Professional License and included in the register of licensed engineers of the Peruvian Engineers Association accessible from the website for verification (www.cip.org.pe).

Attachment 15 briefly introduces the Peruvian Engineers Association and Attachment 16 presents the registering and licensing process of the Peruvian Engineers Association.

B.2. APEC Engineer

An APEC Engineer is defined as a person who is recognized as a professional engineer within an APEC economy, and who has satisfied an authorized body in that economy operating in accordance with the criteria and procedures approved by the APEC Engineer Coordinating Committee.

B.3. Eligibility for Admission to the APEC Engineer Register Peru

Eligibility for admission to the APEC Engineer Register Peru is limited to engineers registered and licensed by the Peruvian Engineers Association who have:

- completed an accredited or recognized engineering program; and
- been assessed as eligible for independent practice; and

- gained a minimum of ten years of experience after graduation; and
- spent at least three years in responsible charge of significant engineering work; and
- proficiency in English language; and
- maintained continuing professional development at a satisfactory level.
- passed the evaluation based on IEA Professional Competence Profile setting the minimum standard of competence an engineer must demonstrate.

In addition, all practitioners seeking registration as APEC Engineers must also agree to be:

- bounded by the codes of professional conduct established and enforced by the Peruvian Engineers Association and by any other jurisdiction within which the engineer practice; and be
- held individually accountable for his/her actions, both through requirements imposed by the licensing and registering body in the jurisdictions in which they work and through legal processes.

Attachment 1 shows the flow diagram of the eligibility assessment process for APEC Engineer Register.

B.3.1. Evaluation of Professional Competency Profile

According to the Graduate Attributes and Professional Competencies Profile Document proposed by the International Engineering Alliance IEA, a professionally competent person must have the attributes necessary to perform the activities within the profession to the standards expected in independent employment or practice. The professional competency profiles for each professional category record the elements of competency necessary for competent performance that the professional is expected to be able to demonstrate in a holistic way at the stage of attaining registration.

Eligibility for admission to the APEC Engineer Register Peru is limited to engineers who attain the proper level of the Professional Competency Profile that are evaluated using the following instruments:

- Eligible for independent practice (Section B5)
 - Defense of an engineering project
 - Personal interview
 - Oral/written examination
 - Ethical and personal trajectory
- Ten years of experience after graduation (Section B6)
- At least three years in responsible charge of significant engineering work (Section B7)
- Proficiency in English language (Section B8)
- Maintained continuing professional development at a satisfactory level (Section B9)

- Compliance with the codes of professional conduct established and enforced by the Peruvian Engineers Association and by any other jurisdiction within which the engineer practice (Section B10).

Attachment 2 shows the mapping between the Professional Competency Profile and the evaluation instruments presented above. Later in the document there is presented how the attainment level of the Professional Competency Profile is determined using these instruments.

B.4. Accreditation or Recognition of Higher Engineering Education Programs

B.4.1 Recognition of Local Engineering Degrees

To meet the academic qualification requirement for admission to the APEC Engineer Register Peru, the engineer should graduate from an appropriate engineering degree program fulfilling the following requirements:

- be housed in a degree-granting institution recognized by the National Superintendence of University Education SUNEDU.
SUNEDU is a specialized-technical government institution responsible for licensing university programs, supervising the quality of education offered by university programs, and administering the national register of university degrees and professional titles.
SUNEDU formulates the general policies and guidelines for the establishment and operation of university programs with specific provisions covering the authorization, mission statement, administration, faculty, instructional standards, infrastructure, laboratory facilities, library, and admission and graduation requirements.
- be accredited by an APEC economy accreditation body holding signatory status at the Washington Accord. ABET and ICACIT (signatories of the Washington Accord) are accreditation bodies that have accredited several engineering programs in Peruvian universities.

B.4.2. Recognition of Foreign Engineering Degrees

Applicants who obtained an engineering degree from a foreign university should obtain the revalidation or recognition of the engineering degree by the corresponding national entity: *revalidation* is awarded by the National Superintendence of University Education SUNEDU, and *recognition* is awarded by an authorized Peruvian university granting equivalent degrees.

B.4.3. Alternative Assessment Mechanisms for Engineering Education

For admission to the APEC Engineer Register Peru, there are not alternatives to the academic standards prescribed in Section B.4.1 and B.4.2.

Attachment 3 presents the Criteria for Accrediting Engineering Programs and the Peruvian Higher Education System.

Attachment 4 presents the Applicant Basic Information Format, and the Assessment Sheet of Accredited or Recognized Engineering Programs.

B.5. Eligibility for Independent Practice

For admission to the APEC Engineer Register Peru, an applicant must have been assessed for independent engineering practice and licensed by the Peruvian Engineers Association. The eligibility for independent engineering practice is assessed through the following components:

- Presentation and defense of an engineering project carried out by the applicant
- Personal interview and oral/written examination
- Ethical behavior and personal trajectory

These assessment components evaluate the engineer experience, personal and professional trajectory, performance in solving engineering problems and completing engineering projects, ability to communicate effectively, ethical behavior and moral character, understanding of engineering impact in society, public safety and environment, and knowledge of legal fundamentals regulating the practice of engineering.

The jury of the presentation and defense of the engineering project, as well as of the personal interview and oral/written examination is composed by renowned engineers belonging to the corresponding Engineering Discipline Chapter. The assessment of the ethical behavior and personal trajectory of the applicant is conducted by the Monitoring Committee through the Ethics Record Certificate issued by the Ethics Tribunal of the Peruvian Engineers Association, the Criminal Record Certificate issued by the Ministry of Justice and the Police Record Certificate issued by the Police Department

Attachment 5 presents the Application Format for Independent Engineering Practice and the Assessment Sheet of Independent Engineering Practice.

B.6. Ten Years of Professional Experience

Candidates must demonstrate a record of ten years of professional experience in fields of engineering in which the applicant claims expertise. The ten years professional experience are counted since obtaining the professional engineering title with at least four years counted after

obtaining the licensing by the Peruvian Engineers Association. The experience must demonstrate the applicant has engaged in professional practice exercising engineering knowledge and skills as well as engineering criteria and judgment.

The documentation requirements shall be in accordance with the APEC Engineer Manual. The evidences or proofs the applicant must submit for assessment and evaluation of the professional experience must include the following items:

- Description of the specific engineering program or project the applicant has participated in.
- Description of the applicant engineering work, specific duties and responsibilities in each project or program.
- Size of the project or program in terms of budget and people involved.
- Dates of applicant engagement and participation in the project or program.
- Samples of the applicant own technical outputs produced during his/her involvement in the program or project.
- Name and contact address of supervisor in the program or project.
- Expression of satisfaction or appreciation for the work done stated by the supervisor or stakeholder involved in the program or project.

All proof and evidence should be notarized and with sworn affidavit. The Monitoring Committee shall conduct the assessment and evaluation of the documents and appoints additional experts if necessary. If the Monitoring Committee members deem necessary, they shall require the applicant to submit additional information or attend an interview.

Attachment 6 presents the Application Format for Independent Engineering Practice and the Assessment Sheet of Ten Years of Practical Experience.

B.7. Three Years Experience Involving Responsible Charge of Significant Engineering Work

Significant engineering work is understood as the work requiring the exercise of independent engineering judgment and criteria for achieving feasible and effective solutions to real-world engineering problems. The size and scope of the programs and projects concerned are significant in terms of duration, budget, complexity or social impact, and the applicant should have been personally accountable for their success or failure. In general, an applicant may be taken to have been in responsible charge of significant engineering work when they have:

- planned, designed, coordinated and executed a small project; or
- undertaken part of a larger project based on an understanding of the whole project; or
- undertaken novel, complex and/or multidisciplinary work.

The three years involving responsible charge of significant engineering work may be within the ten years of professional experience presented in Section B.6 and shall be counted after the applicant obtained the engineering license from the Peruvian Engineers Association.

The evidences or proofs the applicant shall submit for assessment and evaluation of the responsible charge of significant engineering work should contain the same items presented in Section B.6. emphasizing the size and scope of the program or project in terms of outcomes, budget, duration, complexity, as well as clientele or beneficiaries served.

All proof and evidence should be notarized and with sworn affidavit. The Monitoring Committee shall conduct the assessment and evaluation of the documents and appoints additional experts if necessary. If the Monitoring Committee members deem necessary, they shall require the applicant to submit additional information or attend an interview.

Attachment 7 presents the Description of Three Years of Experience in Responsible Charge of Significant Engineering Work and the Assessment Sheet of Three Years of Experience in Responsible Charge of Significant Engineering Work

B.8. Proficiency in English Language

Proficiency in English language is important for the practice of engineering at global scale. Engineers must show they have the English speaking, listening, reading and writing skills for a two-way fluent and clear communication at both colloquial and technical levels.

The evidences or proofs the applicant must submit for assessment and evaluation of the English language skills shall include the following items:

- Recognized English examination (TOEFL, TOEIC, Cambridge, etc.) with a score of at least 75% for each test section (reading, listening, speaking and writing); and
- English report describing an engineering project or program the applicant has participated in. The report must have a length of at least 2000 words.

The Monitoring Committee shall conduct the assessment and evaluation of the documents and appoints additional experts if necessary. If the Monitoring Committee members deem necessary, they shall require the applicant to submit additional information or attend an interview.

Attachment 8 presents the Assessment Sheet of Proficiency in English Language.

B.9. Continuing Professional Development

Continuous development and enhancement of professional competences and skills are very important for engineers in order to keep themselves updated and effective in a competitive and continuously changing engineering world. Engineers have the responsibility to take proper actions and commitments to maintain their competences and competitiveness throughout their professional lives, striving to advance the knowledge within which they practice, and seeking continuous professional development.

The evidences or proofs the applicant must submit for assessment and evaluation of the continuing professional development shall include the following items:

- participation in relevant specialization courses; or
- attendance at university courses; or
- attendance at workshops, seminar, conferences and congresses; or
- specialized certifications; or
- preparation and publication of technical papers; or
- active membership and participation in technical and professional societies; or
- other relevant activity for continuing professional development.

The applicant should show that the average annual time dedicated to professional and specialization updating in the last three years is equivalent to 50 hours per year.

All proof and evidence should be notarized and with sworn affidavit. The Monitoring Committee shall conduct the assessment and evaluation of the documents and appoints additional experts if necessary. If the Monitoring Committee members deem necessary, they shall require the applicant to submit additional information or attend an interview.

Attachment 9 presents the activities of Continuing Professional Development, subjects to be considered, and Table of assignment of equivalent hours for each activity including the weighting factor for computing the total number of equivalent-hours of Continuing Professional Development per year. Attachment 9 also presents the Application Format for Continuing Professional Development and the Assessment Sheet of Continuing Professional Development.

If deemed pertinent, instead of the requirement of 50 equivalent-hours per year, the Monitoring Committee could also consider the acceptance of 150 equivalent-hours accumulated in the last three years.

B.10. Compliance with Code of Conduct

Professional engineers are obligated to comply with and be bound by the Code of Ethics of the Peruvian Engineers Association and by the code of any jurisdiction within which they are practicing. The Code of Ethics of the Peruvian Engineers Association includes requirements on the importance and priority of health, safety and community welfare, on the practice of

engineering within the area of expertise, on the respect for the work of colleagues, among other requirements.

The Peruvian Engineers Association has National and Regional Tribunal of Ethics in charge of assessing the ethical behavior of licensed engineers and imposing sanctions on engineers that do not comply with the ethics code. The Peruvian Engineers Association also maintains a record of engineers who had violated the code of ethics and the sanctions received.

For admission to the APEC Engineer Register Peru, applicants should submit a sworn statement of compliance with applicable professional codes. The Monitoring Committee shall attest the compliance of applicants to the code of ethics in the assessment process. Suspension or revocation of the engineer license constitutes just cause for removal from the APEC Engineer Register Peru.

Attachment 10 presents the Swearing Statement of Commitment for APEC Engineer Register. Attachment 17 presents the Code of Ethics of the Peruvian Engineers Association.

B.11. Individual Accountability

Applicants to the APEC Engineer Register Peru shall submit a sworn statement stating they agree to be held accountable for their actions, both through requirements imposed by the Peruvian Engineers Association and through legal processes.

B.12. IEA Professional Competence Profile

The evaluation of the professional competences stated in sections B.5 to B.11 is based on the IEA Professional Competence Profile which sets the minimum standard of competence an engineer must demonstrate. The components of the IEA Professional Competence Profile are presented in the following:

- **EC1:** Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice.
- **EC2:** Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction of practice.
- **EC3:** Define, investigate and analyze complex problems using data and information technologies where applicable.
- **EC4:** Design or develop solutions to complex problems considering a variety of perspectives and taking account of stakeholder views.
- **EC5:** Evaluate the outcomes and impacts of complex activities.
- **EC6:** Recognize the foreseeable economic, social, and environmental effects of complex activities and seek to achieve sustainable outcomes.

- **EC7:** Meet all legal, regulatory, and cultural requirements and protect public health and safety in the course of all activities.
- **EC8:** Conduct activities ethically.
- **EC9:** Manage part or all of one or more complex activities.
- **EC10:** Communicate and collaborate using multiple media clearly and inclusively with a broad range of stakeholders in the course of all activities.
- **EC11:** Undertake CPD activities to maintain and extend competences and enhance the ability to adapt to emerging technologies and the ever-changing nature of work.
- **EC12:** Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of all complex activities.
- **EC13:** Be responsible for making decisions on part or all of complex activities.

To facilitate the evaluation of the attainment level of the IEA Professional Competence Profile a set of Measurable Capacities have been defined for each competence.

Attachment 11 shows the evaluation matrix of the IEA Professional Competence Profile through Measurable Capacities defined for each competence.

B.13. Application Procedures

Engineers who are seeking admittance to the APEC Engineer Register Peru and maintain an active register and ordinary licensing by the Peruvian Engineers Association may apply by completing the online application at the web site and submit all supporting documents and proofs.

The Monitoring Committee will open application processes three times per year. Each process should be completed in no more than two months. The Monitoring Committee Secretariat shall conduct the assessment and evaluation process and keep track of outcomes timely informing to the applicant. At the end of the process, the applicant will be informed in writing of the decision and the rationale behind.

Attachment 12 presents the Summary of Assessment of Applicant for APEC Engineer Register.

B.14. Applicant Assessment Process

The assessment and evaluation process of applicants is shown in Attachment 1. The steps of the process are described as follows:

- The applicant presents application forms including supporting materials and documents.

- The APEC Engineer Secretariat receives the application and supporting documents and verifies that all required documents are complete. The applicant file is created.
- The Secretariat verifies the accreditation requirements of the Program the applicant graduated from. The Secretariat also asks to the Regional and National Ethics Tribunals the ethical and professional records of the applicant. This information is included in the application folder.
- The Secretary presents all applications to the Monitoring Committee that approves the start of the evaluation process, and the constitution of the Competency Assessment Commission. The Monitoring Committee also provides opinion and recommendations regarding the evaluation process.
- The Competency Assessment Commission is composed by three members: one member from the Monitoring Committee who acts as the Commission Chair, and two members from the Engineering Discipline Chapter the applicant belongs to. The Commission has a term of 30 days to complete all the assessment process.
- The Chair convokes the Commission members for a training session regarding the evaluation process, as well as the requirements and criteria for admission to the APEC Engineer Register Peru. Commission members receive all forms and documents submitted by the applicant, as well as the ethics and professional records.
- The applicant is contacted for defining the dates of:
 - Presentation and defense of an engineering project.
 - Oral/written examination.
 - Personal interview
- The Assessment Commission completes the assessment forms evaluating applicant eligibility for independent engineering practice.
- The Assessment Commission evaluates the pertinence and validity of:
 - Ten years of professional experience.
 - Three years of experience involving responsible charge of significant engineering work.
 - Proficiency in English language.
 - Continuing professional development.

The Assessment Commission completes corresponding assessment forms. The evaluation also includes the attainment level of the Professional Competency Profile as proposed by the International Engineering Alliance.

- All decisions of the Assessment Commission must be approved by at least 2/3 of the members. Minority opinions must also be registered in minutes.
- All assessment documents completed by the Assessment Commission are delivered to the Secretariat of APEC Engineer Peru.
- The Secretariat convokes a meeting of the Monitoring Committee for revising the assessment results. The Assessment Commission Chair presents and defends the results of the assessment process.
- In the meeting the Monitoring Committee can take the following decisions:
 - Approves the application for admission to APEC Engineer Register.
 - Convokes the applicant for a meeting for a final assessment.

- Denies the application.
- The final approval or denial decision of the Monitoring Committee should be approved by at least 3/4 of all members.
- The applicant is informed on the results of the assessment and evaluation process with the rationale behind.
- Approved applicants are convoked for the signing of the Swearing Statement of Commitment with corresponding professional codes, and individual accountability.
- Approved applicants are registered as APEC Engineer.
- The term since the initial application submission to the registering as APEC Engineer must be less than two months.

Attachment 13 presents a detailed description of the evaluation process of applicants to APEC Engineer Register including activities, times, and people in charge.

B.15. Competency Assessment Commission

The Competency Assessment Commission that evaluates the applicant is composed by three members:

- One Commission Chair, and
- Two specialized members

The Commission Chair must be a member of the Monitoring Committee related to the engineering discipline of the applicant.

The two specialized members can be proposed by the Monitoring Committee or requested to the Engineering Discipline Chapter the applicant belongs to.

The three members of the Competency Assessment Commission must be engineers licensed and enabled by the Peruvian Engineers Association, professionally updated and active, with a professional experience of at least 15 years, and with an outstanding and recognized professional and personal trajectory.

All members of the Assessment Commission must complete a training on the assessment process, requirements and criteria of APEC Engineering Agreement and the International Engineering Alliance.

Attachment 13 presents the activities to be fulfilled by the Competency Assessment Commission.

B.16. Audit of APEC Engineers

Engineers registered in the APEC Engineer Register Peru will be required to renew their registration every three years to demonstrate that they continue performing relevant

engineering work, are compliant with continuing professional competency requirements, and have a continuing record of satisfactory professional conduct.

For registration renewal, APEC Engineers shall submit an application form with supporting documents and proofs showing:

- continued relevant work in the engineering discipline; and
- continued professional development through participation in courses, workshops, seminar, conferences, congresses, publication of technical papers, technical certifications, participation in technical societies, among other relevant activities of continuing professional development.
- The average annual time dedicated to professional and specialization updating in the last three years should be equivalent to 50 hours per year.

The Monitoring Committee Secretariat shall conduct the assessment and evaluation process for registration renewal previously verifying the active licensing by the Peruvian Engineers Association, and the corresponding professional and ethical records of the applicant.

B.17. Appeals Process for Unaccepted Applicants

Applicants who are not admitted to the APEC Engineer Register Peru could submit a request for reconsideration within two months of the date of the rejection letter. The request must describe the reasons why the applicant considers he/she is eligible for admission and submit additional information in support of the application.

The Monitoring Committee will reevaluate the application and call the applicant for an interview if necessary. At the end of the process the applicant will be informed on the results of the appeal and the rationale behind. The result of the appeal constitutes a final determination and there are not more instances for appealing.

Attachment 13 presents the evaluation process of applicants to APEC Engineer Register including the process for appeals and their evaluation by the Monitoring Committee.

B.18. Rules and Procedures of Monitoring Committee Meetings

The rules and procedures of Monitoring Committee meetings regarding calls, frequency, agenda, deliberations, voting, minutes, etc., are presented in Attachment 14.

Applicants who are not admitted to the APEC Engineer Register Peru could submit a request for reconsideration

PART C. ENGINEERING DISCIPLINES

C.1. Recognized Engineering Disciplines

The engineering disciplines recognized by the APEC Engineer Register Peru are:

- Chemical Engineering
- Civil Engineering
- Electrical Engineering
 - Electrical Engineering
 - Electronics Engineering
 - Telecommunications Engineering
- Environmental Engineering
 - Sanitary Engineering
 - Environmental Engineering
- Geotechnical Engineering
- Industrial Engineering
- Information Engineering
- Mechanical Engineering
 - Mechanical Engineering
 - Mechanical-Electrical Engineering
- Mining Engineering
- Petroleum Engineering
- Naval Engineering
- Agriculture Engineering

A candidate for admittance to the APEC Engineer Register Peru shall declare only one area of expertise. This area of expertise should coincide with the engineering discipline of the Engineering Discipline Chapter the applicant belongs to.

C.2. Definition of Engineering Disciplines

In the following, the definition of each engineering discipline is presented.

C.2.1. Chemical Engineering

Engineering discipline that deals with the design, installation, operation and management of industrial chemical plants through the analysis, synthesis, design, control and optimization of processes for transforming and generating materials and products, making an efficient use of energy and clean and safe technologies. Chemical engineering includes the following specialization areas:

- Chemical process design

- Chemical plant design
- Process automation
- Materials
- Transport phenomena
- Petro-Chemistry

C.2.2. Civil Engineering

Branch of engineering related to the design, construction, maintenance and management of the built environment including works like buildings, roads, bridges, dams, channels railroads and other forms of built infrastructure. Civil engineering includes the following specialization areas:

- Structural engineering
- Construction engineering
- Earthquake engineering
- Hydraulic engineering
- Surveying
- Soil mechanics

C.2.3. Electrical Engineering

Engineering field with three sub-disciplines:

C.2.3.1. Electrical Engineering

Field of engineering that deals with the analysis, planning, design, implementation, deployment, operation, maintenance and management of electrical systems including the generation, transformation, transmission and distribution of electricity, including industrial and domestic electrical installation and lighting. Electrical engineering includes the following specialization areas:

- Electric power plants
- Electric transmission and distribution
- Electricity transformation plants. Electric substations
- Industrial electricity
- Electric machines and equipment
- Lighting

C.2.3.2. Electronics Engineering

Field of engineering that deals with the analysis, design, implementation, operation, maintenance and management of electronics components, devices and systems applied to industrial automation and control, signal processing, bioengineering, consumer electronics, computers, among other related fields. Electronics engineering includes the following specialization areas:

- Industrial automation
- Control engineering and robotics
- Radio engineering

- Telecommunications
- Instrumentation
- Signal and image processing

C.2.3.3. Telecommunications Engineering

Field of engineering that deals with the analysis, design, planning, design, implementation, deployment, operation, maintenance and management of telecommunication systems and networks for transmitting / receiving information through different means and channels.

Telecommunications engineering include the following specialization areas:

- Switching
- Information processing and storage
- Wireless communications
- Cellular communications
- Optical communications
- Internet
- Planning and management of telecommunication systems

C.2.4. Environmental Engineering

Engineering discipline that is concerned with the analysis, improvement, protection and management of the environment for protecting people and nature from the adverse effects of pollution. The environmental engineer conduct studies of environmental impact and programs of environmental protection and upgrading, including recycling, water and air pollution control, among other environmental care activities. Environmental engineering includes the following specialization areas:

- Waste disposal and recycling
- Pollution control
- Water treatment
- Urban sanitation
- Environmental impact and management

C.2.5. Geotechnical Engineering / Geological Engineering

Engineering discipline that deals with the study and analysis of earth materials for determining their physical, mechanical and chemical properties and their geological evolution looking to their potential exploitation and use. The geotechnical/geological engineer conducts construction surveys, geological surveys of prospecting, exploration, evaluation, sizing and utilization of soil and mineral and energy resources. Geotechnical/Geological engineering includes the following specialization areas:

- Surveying
- Soil mechanics and foundations
- Geological risk prevention and control
- Geological exploration
- Mineral resources prospection and sizing
- Hydrocarbon resources prospection

C.2.6. Industrial Engineering

Field of engineering related to the planning, design, improvement, implementation and evaluation of operations, processes and systems that involve materials, people, equipment, energy, information, time and money. The industrial engineering points to the optimization and effectiveness of process and systems in the industry and service sectors. Industrial engineering includes the following specialization areas:

- Production and logistics
- Decision and optimization
- Quality management
- Project management
- Production planning and control
- Industrial automation
- Financial management

C.2.7. Information Engineering

Field of engineering related to the analysis, design, implementation and management of software-based information systems applied to the improvement and optimization of processes in organizations. Information engineers generate, analyze, process, integrate, present and distribute information in a structured and systematic business approach. Information engineering includes the following specialization areas:

- Business process modeling
- Business intelligence
- Data base management
- Information systems quality
- Information security and auditing
- Software development
- Project management

In Peru, the following denominations are used to refer to Information Engineering: Informatics Engineering, Information Systems Engineering, Systems Engineering, Computing and Systems Engineering.

C.2.8. Mechanical Engineering

Engineering field with two sub-disciplines:

C.2.8.1. Mechanical Engineering

Engineering discipline that deals with the analysis, design, construction, operation, maintenance, planning and evaluation of mechanical equipment, machinery and systems, involving structural analysis, materials, motion and energy transformation, with their diverse applications in industry, manufacturing, mining, transportation, energy, among other fields. Mechanical engineering includes the following specialization areas:

- Manufacturing technologies

- Heavy machinery in construction and mining
- Maintenance engineering
- Welding
- Mechanical design
- Thermodynamics and heat transfer
- Air conditioning and cooling

C.2.8.2. Mechanical-Electrical Engineering

Engineering discipline that deals with the analysis, design, construction, operation, maintenance, planning and management of electro-mechanical components and systems applied to the generation, transformation, transmission of electrical energy, as well the efficient use of energy. Mechanical-electrical engineering includes the following specialization areas:

- Power plants
- Power systems
- Industrial automation
- Instrumentation, measurement and control
- Electrical machines
- Thermal processes

C.2.9. Mining Engineering

Engineering discipline that deals with the planning, design, operation and management of mining plants for the extraction and exploitation of minerals in surface and underground mines, as well as with the technical and economic feasibility of mine sites and mining projects, attenuating the environmental impact, and preventing and controlling risky situations. Mining engineering includes the following specialization areas:

- Underground mining
- Surface mining
- Mining geology
- Mining planning
- Mining management
- Safety, environment and sustainability

C.2.10. Petroleum Engineering

Engineering discipline that deals with the exploration, drilling, exploitation and development of oil and gas fields, as well as the transport, storage, distribution and marketing of hydrocarbons. This discipline points to the efficient and sustainable exploitation of hydrocarbons through the use and integration of clean and safe technologies, materials, energy, environment and community relations. Petroleum engineering includes the following specialization areas:

- Petroleum geology
- Exploration and exploitation
- Drilling and wells
- Reservoirs
- Petroleum and natural gas production

- Hydrocarbons transport and storage

C.2.11. Naval Engineering

Engineering discipline dealing with the design, construction, and maintenance of ships, submarines, and other marine structures. It combines mechanical, electrical, and civil engineering to ensure vessels operate safely and effectively in the ocean.

C.2.12. Agricultural Engineering

Engineering discipline dealing with the application of engineering principles to solve problems and improve practices in agriculture, food processing, and related industries, focusing on sustainability and efficiency.

PART D. RESOURCES ALLOCATION

Resources Allocated to APEC Engineer Monitoring Committee - Peru

For carrying out its activities, the Peruvian Engineers Association has allocated the following resources to APEC Engineer Monitoring Committee - Peru:

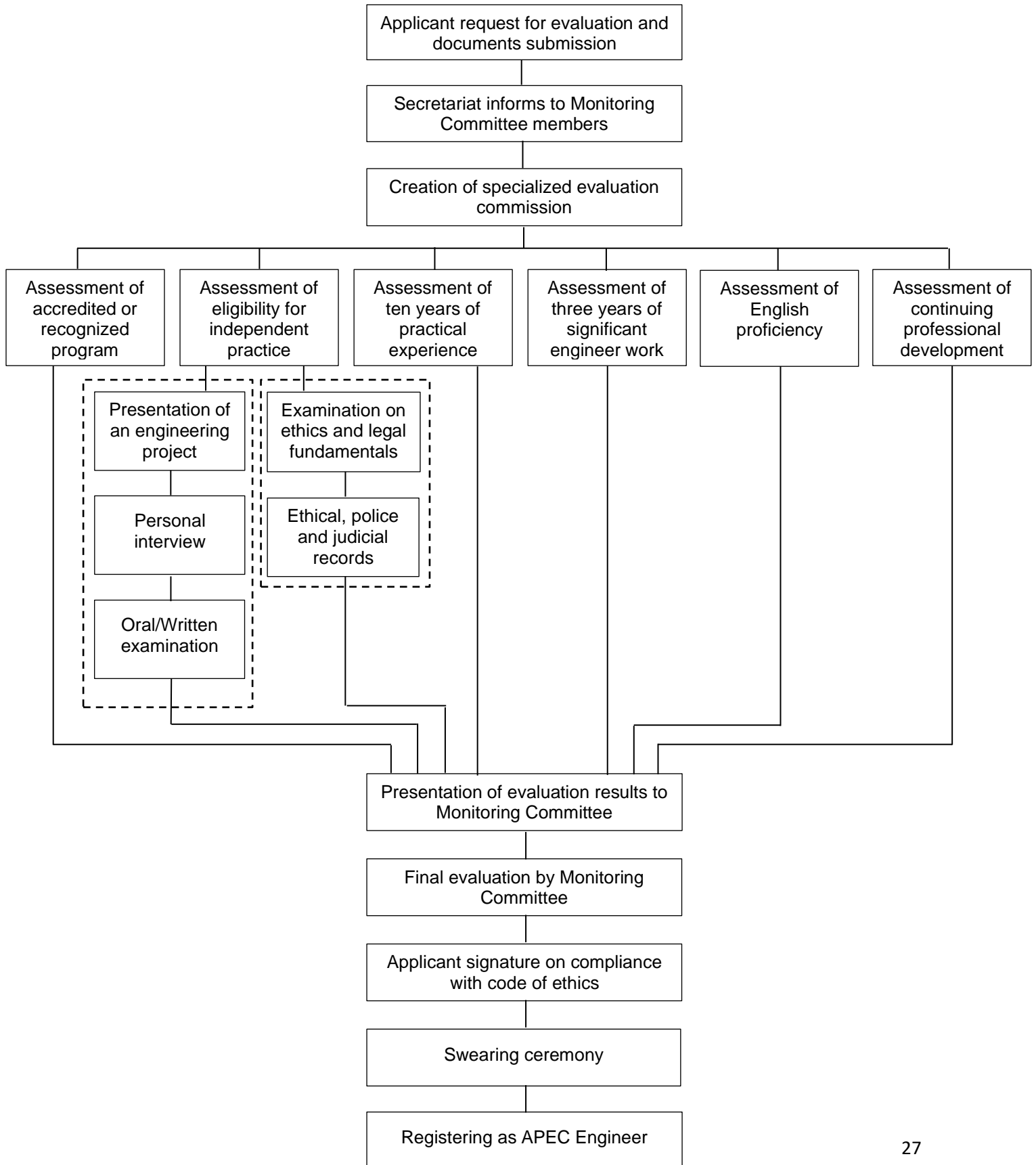
- Office space and proper furniture
- One administrative assistant
- Office materials
- Web site

The office of APEC Engineer Monitoring Committee - Peru is located in the headquarters of the Peruvian Engineers Association, and it could use all available infrastructure and resources.

Attachment 1

Flow Diagram of Assessment Process for APEC Engineer Registration

Flow Diagram of Assessment Process for APEC Engineer Registration



Attachment 2

Instruments for Evaluating the Attainment of Professional Competency Profile

Instruments for Evaluation of Professional Competency Profile

Professional Competency Profile	Evaluated in the following criteria:								
	Eligibility for independent engineering practice				Professional experience. Ten years	Responsible charge of significant engineering work. Three years	Proficiency in English language	Continuing professional development	Compliance with code of conduct
	Defense of an engineering project	Personal interview	Oral / Written examination	Ethical and personal trajectory					
EC1: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice	●				●	●			
EC2: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction in which he/she practices.	●				●	●			
EC3: Define, investigate and analyze complex problems	●				●	●			
EC4: Design or develop solutions to complex problems	●				●	●			
EC5: Evaluate the outcomes and impacts of complex activities	●				●	●			
EC6: Recognize the reasonably foreseeable social, cultural and environmental effects of complex activities generally, and have regard to the need for sustainability; recognize that the protection of society is the highest priority	●	●	●		●	●			

Professional Competency Profile	Evaluated in the following criteria:								
	Eligibility for independent engineering practice				Professional experience. Ten years	Responsible charge of significant engineering work. Three years	Proficiency in English language	Continuing professional development	Compliance with code of conduct
	Defense of an engineering project	Personal interview	Oral / Written examination	Ethical and personal trajectory					
EC7: Meet all legal and regulatory requirements and protect public health and safety in the course of his or her activities	●	●	●		●	●			
EC8: Conduct his or her activities ethically	●	●		●					●
EC9: Manage part or all of one or more complex activities	●					●			
EC10: Communicate clearly with others in the course of his or her activities	●	●				●	●		
EC11: Undertake CPD activities sufficient to maintain and extend his or her competence		●						●	
EC12: Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of his or her complex activities	●					●			
EC13: Be responsible for making decisions on part or all of complex activities	●					●			

Attachment 3

- **Criteria for Accrediting Engineering Programs**
- **Peru Higher Education System**

Criteria for Accrediting Engineering Programs

To meet the academic qualification requirement for admission to the APEC Engineer Register Peru, the engineer should graduate from an appropriate engineering degree program which has been accredited by an APEC economy accreditation body holding signatory status at the Washington Accord.

At present, several Engineering Programs of Peruvian universities have attained or are undergoing ABET accreditation according to the criteria of the Engineering Accreditation Commission EAC intending to assure the quality of engineering education and to promote its systematic and continuous improvement satisfying the needs and expectations of constituencies in a dynamic and continuously changing environment.

All engineering programs seeking accreditation from ABET Engineering Accreditation Commission must demonstrate that they satisfy the General Criteria and Program Criteria for Baccalaureate Level Programs as follows (extracted from ABET web site).

A. General Criteria for Baccalaureate Level Programs

Criterion 1. Students

The Program must show that student performance is monitored and evaluated to foster the attainment of student outcomes and enabling graduates the attainment of program educational objectives. Students must be timely advised regarding curriculum and career issues.

The program must have and enforce policies for admitting new and transfer students, and have and enforce procedures assuring that student who graduate meet all graduation requirements.

Criterion 2. Program Educational Objectives

Program Educational Objectives are defined as statements that describe what graduates are expected to attain a few years after graduation.

The Program must have Educational Objectives consistent with the mission of the institution, the needs of its constituencies and the accreditation criteria. The program must have a documented and systematic process, involving program constituencies, for the periodic review of the educational objectives, ensuring their consistency with the institutional mission, the needs of program constituencies, and the accreditation criteria.

Criterion 3. Student Outcomes

Student Outcomes are the competencies students are expected to know and be able to do at the time of graduation. They are related to the knowledge, skills and attitudes that students acquire and exhibit as they progress through the Program.

The program must have documented student outcomes that prepare graduate to attain the program educational objectives. Student outcomes should include outcome s(a) to (k) and any additional outcomes that may be articulated by the program:

- (a) Engineering knowledge. Ability to apply knowledge of mathematics, science and engineering.
- (b) Experimentation. Ability to design and conduct experiments, as well as to analyze and interpret data.
- (c) Engineering design. Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- (d) Teamworking. Ability to function in multidisciplinary teams.
- (e) Problem solving. Ability to identify, formulate and solve engineering problems.
- (f) Ethics. Understanding of ethical and professional responsibilities.
- (g) Communication. Ability to communicate effectively.
- (h) Environment and Sustainability. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal impact.
- (i) Lifelong learning. Recognition of the need for, and ability to engage in life-long learning.
- (j) Engineering and society. Knowledge of contemporary issues.
- (k) Modern engineering practice. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Criterion 4. Continuous Improvement

The program must have periodic, systematic, appropriate and documented processes for assessing and evaluating the level to which the student outcomes are attained. The results of these evaluations must be properly utilized for the continuous improvement of the program. Other information may also be used to assist in the continuous improvement of the program.

Criterion 5. Curriculum

Curriculum requirements specify areas appropriate to engineering but do not prescribe specific courses. The program curriculum must devote adequate attention and time to each component consistently with the objectives and outcomes of the program and the institution. The curriculum must include:

- a) one year of a combination of college level mathematics and basic sciences appropriate to the discipline.
- b) A year and a half of engineering topics consisting of engineering sciences and engineering design. Engineering design is the process of devising a system, component or process to convert resources optimally to meet given needs.
- c) A general education component consistent with the program educational objectives.

The curriculum should culminate in a major design experience where students apply their knowledge and skills to devise and create a system, component or process which represents the proper solution to a real-world engineering problem, incorporating realistic limitations and constraints.

Criterion 6. Faculty

Faculty must be of sufficient number and with the academic and professional qualifications to cover the curricular areas of the program, to guide the development of the assessment, evaluation and continuous improvement processes, to interact with industry and practitioners, as well as to provide guidance, advising and mentoring to students.

The competence of the faculty should be evaluated by factors such as academic background, engineering and professional experience, teaching effectiveness, communication skills, and commitment and compromise with the Program.

Criterion 7. Facilities

The program must show that classrooms, laboratories, equipment, and offices are adequate to promote the teaching-learning process supporting the attainment of student outcomes. Modern equipment, tools, and computing resources are appropriate, available, accessible and systematically maintained and updated. Appropriate guidance must be provided to students regarding the use and safety of laboratory equipment and computing resources.

Library services and computing and information infrastructure must be adequate to support the academic and professional activities of students and faculty.

Criterion 8. Institutional Support

The program must show that it receives appropriate and pertinent institutional support to meet program needs. Resources including institutional service and financial support must be adequate to ensure the quality and continuity of the program, attracting and retaining qualified faculty, acquiring, maintaining and operating facilities and equipment, to provide an environment conducive to the attainment of student outcomes and to faculty development.

B. Program Criteria for Baccalaureate Level Programs

The program must show the fulfillment of the Program Criteria corresponding to the given discipline. Program Criteria are usually related to areas of curricular topics and faculty qualifications. Program Criteria for each engineering discipline have been defined.

C. Accreditation Period

Depending on the results of the program evaluation, accreditation can be awarded for six years, two years or no accreditation.

Source: www.abet.org

Peru Higher Education System

The Peruvian Educational System is divided into: Basic or Initial Education, Primary Education, Secondary Education, Higher Education which could be University Education and Non-University Technical Education.

The duration of Primary Education is six years and the duration of Secondary Education is five years. Usually, students complete the Secondary Education at the age of 16-17 years old. After completing the Secondary Education, students may continue with University Education or Non-University Technical Education.

Figure 3.1 shows the structure of Peru education system.

A. Non-University Technical Education

The Non-University Technical Education is oriented to a technical formation for direct application of procedures and techniques to the solution of practical problems in the industry or services sectors. It typically has as duration of two or three years and is provided by technical institutes offering a variety of technical training options. Students who complete Non-University Technical Education are awarded technical and expert diplomas.

B. University Education

The University Education System has three levels programs: Undergraduate, Master and Doctor. The undergraduate education is based on a curriculum of ten academic semesters and a total of 200-220 credits to be completed in five years. One credit is equivalent to one weekly hour of theory, lecture or two hours of guided practice or two/three hours of laboratory experience or design work. The curriculum of engineering programs culminates with a final design or research project (capstone project) where students devise a system, component or process for solving an engineering problem. The curriculum also includes Co-Op Education and knowledge of a foreign language (usually English).

After completing all curriculum requirements, students are awarded the bachelor degree in the corresponding engineering discipline. After obtaining the bachelor degree, graduates may continue with master programs.

However, an engineering bachelor degree is not enough for the practice of engineering in the country. For the legal practice of engineering, engineers should be awarded the title of Professional Engineer by a university, usually the same university where the bachelor degree was awarded. To obtain the title of Professional Engineer, the bachelor graduate has two options: submit and defend a novel engineering project or submit and defend a practical

engineering experience report. In both cases, the candidate should apply engineering knowledge and skills to solve a real-world engineering problem satisfying diverse limitations and constraints, and using proper norms, standards and regulations.

Usually, graduates take at least one year, after obtaining getting the bachelor degree, to submit and defend the professional engineer project. Figure 3.2. shows the process to obtain the title of professional engineer.

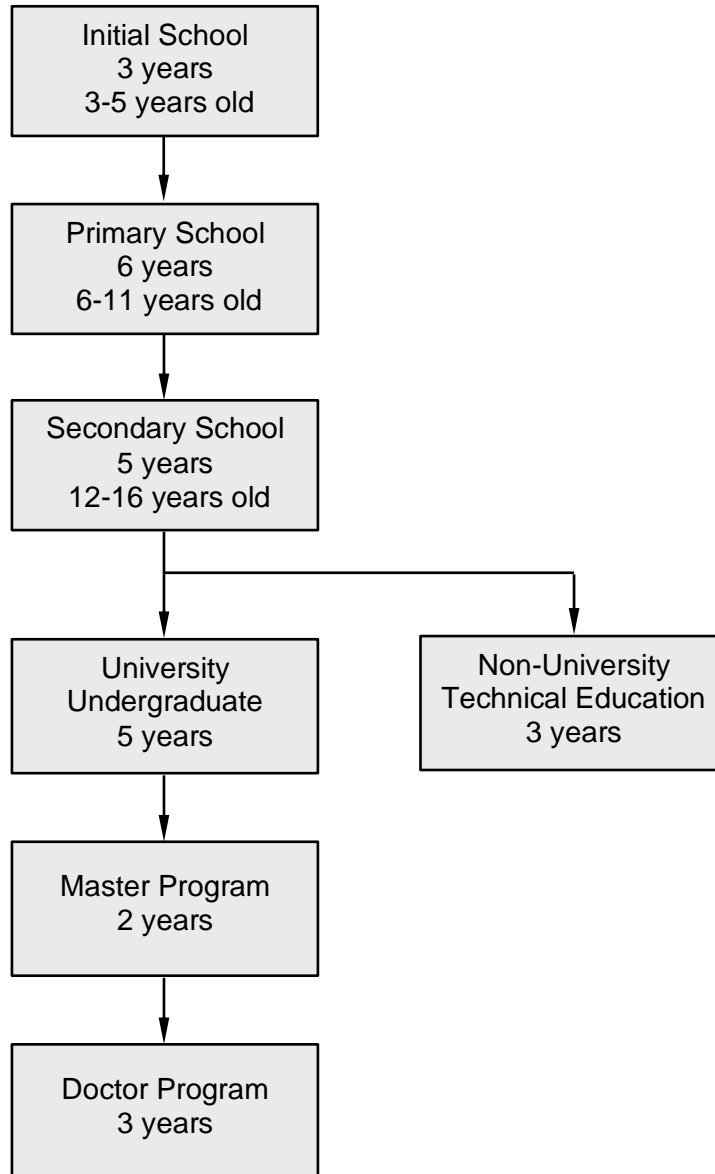


Figure 3.1. Peru education system.

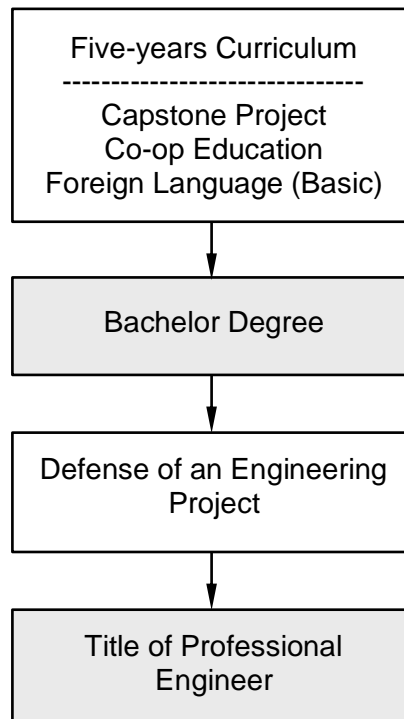


Figure 3.2. Process to obtain the title of professional engineer (required for registering and licensing by the Professional Engineers Association of Peru)

Attachment 4

- **Applicant Basic Information**
- **Assessment of Accredited or Recognized Engineering Programs**

APEC Engineer Peru
APPLICATION FOR APEC ENGINEER REGISTRATION
APPLICANT BASIC INFORMATION

Applicant		Picture
Name		
Date of Birth		
Engineer Licensure Number		
Address		
Telephone		
E-mail		

University Studies			
Graduating University			
College			
Program			
Engineering Title		Date	
Bachelor Degree		Date	
University website			
Program is accredited	YES		NO
Accrediting institution			

Engineering Licensure – Peruvian Engineers Association			
Engineer Licensure Registration	Number		Date
Engineer Registration Discipline			
APEC Engineer Discipline			

Present Employment	
Company	
Position	
Address	
Telephone	
Website	

Membership in Professional Societies	
	Date

Date:

Applicant Signature:

APEC Engineer Peru

Assessment

MONITORING COMMITTEE

ASSESSMENT OF ACCREDITED OR RECOGNIZED ENGINEERING PROGRAM

Application Number	
Assessment Start Date	

Name of Applicant					
Engineer Professional Title	Title				
	Place				
	Date				
CIP Engineer Registration	Number		Date		
CIP Engineer Registration Discipline					
APEC Engineer Discipline					

Graduating University	
College	
Program	
Engineering Title	
Bachelor Degree	

University is recognized by SUNEDU Superintendence of University Education	YES		NO		
Program is accredited	YES		NO		
Accrediting institution					
Period of accreditation					
Accrediting institution holds signatory or provisional status at Washington Accord	YES		NO		

Note: Program accreditation should be verified through accrediting institution (website, other).

APEC Engineer Peru
President

APEC Engineer Peru
Secretary

Attachment 5

- **Eligibility for Independent Engineering Practice. Application for APEC Engineer Register**
- **Assessment of Eligibility for Independent Engineering Practice**
- **Assessment of Professional Competency Profile**

APEC Engineer Peru

**ELIGIBILITY FOR INDEPENDENT ENGINEERING PRACTICE
APPLICATION FOR APEC ENGINEER REGISTRATION**

1. Presentation and Defense of an Engineering Project

Title of project	
Time of presentation	30 minutes
Time for questions	20 minutes
Date	To be fixed in coordination with applicant
The project should take into account	Identification of problem or need
	Definition of technical specifications of solution and /or design requirements
	Proposal and comparison of alternatives and selection of the proper solution
	Procedure and methods for problem solving or engineering design
	Use of engineering standards, norms and principles
	Fulfillment of technical, economical, legal, social and environmental constraints
	Project management. Schedules and budgets
	Supporting materials and deliverables

2. Interview and examination

Aspects to evaluate	Relevance of professional experience
	Ability to communicate effectively
	Ethical behavior an moral character
	Understanding of engineering impact in society
	Knowledge of legal fundamentals regulating engineering practice
Date	To be fixed in coordination with applicant

3. Assessment of Ethical Behavior and Personal Trajectory

The applicant reports record of ethical issues before the Tribunal of Ethics Professional Engineers Association of Peru	YES		If YES, explain dates and facts:	
	NO			
The applicant reports record of legal issues before the Ministry of Justice	YES		If YES, explain dates and facts:	
	NO			
The applicant reports record of police issues before the Police Department	YES		If YES, explain dates and facts:	
	NO			

Submit	Ethics record certificate issued by the Ethics Tribunal of the Professional Engineers Association
	Criminal record certificate issued by the Ministry of Justice
	Police record certificate issued by the Police Department

I hereby swear that the above descriptions are true.

Date:

Applicant Name:

Signature:

APEC Engineer Peru
MONITORING COMMITTEE

Assessment

ASSESSMENT OF ELEGIBILITY FOR INDEPENDENT PRACTICE

Application Number	
Assessment Start Date	

Name of Applicant		
Engineer Professional Title	Title	
	Place	
	Date	
CIP Engineer Registration Number		
CIP Engineer Registration Date		
CIP Engineer Registration Discipline		
APEC Engineer Discipline		

1. Assessment of Presentation and Defense of an Engineering Project

Assessment Criteria	Compliance		Observation
	YES	NO	
Identification of problem and/or need to solve			
Definition of technical specifications of solution and /or design requirements			
Proposal and comparison of alternatives and selection of the proper solution			
Procedure and methods for problem solving or engineering design			
Use of engineering standards, norms and principles			
Fulfillment of technical, economical, legal, social and environmental constraints			
Project management. Schedules and budgets			
Supporting materials and deliverables			

2. Assessment of Personal Interview and Oral / Written Examination

Assessment Criteria	Compliance		Observation
	YES	NO	
Relevance of professional experience			
Ability to communicate effectively			
Ethical behavior and moral character			
Understanding of engineering impact in society			
Knowledge of legal fundamentals regulating engineering practice			

3. Assessment of Ethical Behavior and Trajectory

Assessment Criteria	Compliance		Observation
	YES	NO	
Ethics record certificate issued by the Ethics Tribunal of the Professional Engineers Association			
Criminal record certificate issued by the Ministry of Justice			
Police record certificate issued by the Police Department			

5. Assessment of Professional Competency Profile

The attainment level of the Professional Competency Profile is evaluated according to the following Table:

Level		Meaning
5	Very Good	Outstanding performance. Extraordinary fulfillment of requirements
4	Good	Good performance. Fulfillment of requirements
3	Regular	No good, no bad. Partial fulfillment of requirements
2	Bad	Poor, incomplete and inferior. Not focus on the problem
1	No opinion	No opinion. Does not apply

Professional Competency	Defense of eng. project	Personal interview	Oral / Written exam	Ethical and personal trajectory	Evaluation				
					5	4	3	2	1
EC1: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice	●								
EC2: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction in which he/she practices.	●								
EC3: Define, investigate and analyze complex problems	●								
EC4: Design or develop solutions to complex problems	●								
EC5: Evaluate the outcomes and impacts of complex activities	●								
EC6: Recognize the reasonably foreseeable social, cultural and environmental effects of complex activities generally, and have regard to the need for sustainability; recognize that the protection of society is the highest priority	●	●	●						
EC7: Meet all legal and regulatory requirements and protect public health and safety in the course of his or her activities	●	●	●						
EC8: Conduct his or her activities ethically	●	●		●					
EC9: Manage part or all of one or more complex activities	●								

Professional Competency	Defense of eng. project	Personal interview	Oral / Written exam	Ethical and personal trajectory	Evaluation				
					5	4	3	2	1
EC10: Communicate clearly with others in the course of his or her activities	●	●							
EC11: Undertake CPD activities sufficient to maintain and extend his or her competence		●							
EC12: Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of his or her complex activities	●								
EC13: Be responsible for making decisions on part or all of complex activities	●								

Note: Each applicable component of the Competence Professional Profile must be attained at the level of 4, at least.

6. Overall Compliance

OVERALL COMPLIANCE	YES	NO

Date:

 President of Engineering
 Discipline Chapter

 Representative of Engineering
 Discipline Chapter

Attachment 6

- **Engineering Experience / Significant Engineering Work. Application for APEC Engineer Register**
- **Assessment of Ten Years of Practical Experience**
- **Assessment of Professional Competency Profile**

APEC Engineer Peru

ENGINEERING EXPERIENCE / SIGNIFICANT ENGINEERING WORK APPLICATION FOR APEC ENGINEER REGISTRATION

1. Engineering Work Experience (retrospective order, beginning with the most recent one)

No.	Work Period		Organization Area/Department	Project / Program	Supervisor or Organization Representative	Signature	Date
	Start	End					
	Month / Year	Month / Year					
1							
2							
3							
4							

Note: The signatory shall be the supervisor or contractor who employed the applicant. Otherwise, the signatory shall be the representative of the organization under which the applicant executed the engineering work.
Supporting documents are required to validate applicant experience.

2. Detailed Description of Engineering Work (listed in the preceding table)

No.	Engineer Position	Work Description			Significant Engineering Work	
		Description (contents and significance of engineering work, applicant role, duties and responsibilities, management duties, etc. 150 words)	Stakeholders	Project Scope / Size (budget, people involved, etc.)	YES	NO
					CODE	
1						

No.	Engineer Position	Work Description			Significant Engineering Work	
		Description (contents and significance of engineering work, applicant role, duties and responsibilities, management duties, etc. 150 words)	Stakeholders	Project Scope / Size (budget, people involved, etc.)	YES	NO
					CODE	
2						
3						

Note. For code of Significant Engineering Work, revise Attachment 7.
Supporting documents are required to validate applicant experience.

I hereby swear that the above descriptions are true.

Date:

Applicant Name:

Signature:

APEC Engineer Peru

MONITORING COMMITTEE

Assessment

ASSESSMENT OF TEN YEARS OF PRACTICAL EXPERIENCE

Application Number	
Assessment Start Date	

Name of Applicant		
Engineer Professional Title	Title	
	Place	
	Date	
CIP Engineer Registration Number		
CIP Engineer Registration Date		
CIP Engineer Registration Discipline		
APEC Engineer Discipline		

No.	Organization	Project / Program	Engineer Position	Work Time (Months)	After Obtaining Engineering Title		After Registering at CIP		Compliance	
					YES	NO	YES	NO	YES	NO
1										
2										

No.	Organization	Project / Program	Engineer Position	Work Time (Months)	After Obtaining Engineering Title		After Registering at CIP		Compliance	
					YES	NO	YES	NO	YES	NO
3										
4										
5										
6										
7										
8										

Total Valid Months	After Obtaining Engineering Title	After Registering at CIP
	At least 10 years	At least 4 years

Ten Year Experience - Assessment of Professional Competency Profile

The attainment level of the Professional Competency Profile is evaluated according to the following

Table:

Level		Meaning
5	Very Good	Outstanding performance. Extraordinary fulfillment of requirements
4	Good	Good performance. Fulfillment of requirements
3	Regular	No good, no bad. Partial fulfillment of requirements
2	Bad	Poor, incomplete and inferior. Not focus on the problem
1	No opinion	No opinion. Does not apply

Professional Competency		Evaluation				
		5	4	3	2	1
EC1: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice	●					
EC2: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction in which he/she practices.	●					
EC3: Define, investigate and analyze complex problems	●					
EC4: Design or develop solutions to complex problems	●					
EC5: Evaluate the outcomes and impacts of complex activities	●					
EC6: Recognize the reasonably foreseeable social, cultural and environmental effects of complex activities generally, and have regard to the need for sustainability; recognize that the protection of society is the highest priority	●					

Professional Competency		Evaluation				
		5	4	3	2	1
EC7: Meet all legal and regulatory requirements and protect public health and safety in the course of his or her activities	●					

Note: Each applicable component of the Competence Professional Profile must be attained at the level of 4, at least.

Overall Compliance

OVERALL COMPLIANCE	YES	NO

Date:

APEC Engineer Peru
President

APEC Engineer Peru
Secretary

Attachment 7

- **Description of Three Years of Experience in Responsible Charge of Significant Engineering Work**
- **Assessment of Three Years of Experience in Responsible Charge of Significant Engineering Work**
- **Assessment of Professional Competency Profile**

**APEC Engineer Peru
MONITORING COMMITTEE**

**DESCRIPTION OF THREE YEARS EXPERIENCE IN RESPONSIBLE CHARGE OF
SIGNIFICANT ENGINEERING WORK**

Concerning “Experiences in the execution of engineering work under complicated conditions, or engineering work requiring new concepts, or engineering work involving a plurality of different disciplines”, the contents of more realistically presumed experiences are described below.

1. Work under complicated conditions

Significant engineering work executed under complicated conditions.	
Work Characteristics	Code
Project / program schedule is tight	1-A
Project / program budget is tight	1-B
Available space is tight	1-C
Working area is complicated	1-D
Strict safety and environmental requirements	1-E
Public and community relations are difficult	1-F
Complex administrative coordination	1-G

2. Work requiring new concepts

Significant engineering work requiring new concepts, methods and technologies.	
Work Characteristics	Code
New concepts	2-A
New technologies	2-B
New working methods	2-C
New solutions	2-D
New techniques	2-E
New management criteria	2-F

3. Work involving a plurality of disciplines.

Significant engineering work involving a plurality of different disciplines.	
Work Characteristics	Code
Engineering work requiring expertise covering various disciplines	3-A
Engineering work requiring coordination among professionals of different disciplines	3-B

4. Work in a project of significant scope, size and diversity of stakeholders

Significant engineering work in a project of significant size, scope and diversity of stakeholders	
Work Characteristics	Code
Engineering work requiring coordination with different stakeholders with diverse interests.	4-A
Engineering work requiring expertise for conducting a project of significant size in terms of scope, budget and people involved.	4-B

APEC Engineer Peru

Assessment

MONITORING COMMITTEE

ASSESSMENT OF THREE YEARS IN RESPONSIBLE CHARGE OF SIGNIFICANT ENGINEERING WORK

Application Number	
Assessment Start Date	

Name of Applicant		
Engineer Professional Title	Title	
	Place	
	Date	
CIP Engineer Registration Number		
CIP Engineer Registration Date		
CIP Engineer Registration Discipline		
APEC Engineer Discipline		

No.	Organization	Project / Program	Engineer Position	Work Time (Months)	Significant Engineering Work				Compliance	
					Complicated Conditions	New Concepts	Plurality of Disciplines	Scope / Budget	YES	NO
1										
2										
3										

No.	Organization	Project / Program	Engineer Position	Work Time (Months)	Significant Engineering Work				Compliance	
					Complicated Conditions	New Concepts	Plurality of Disciplines	Scope / Budget	YES	NO
4										
5										
6										

Total Valid Months (after registering at CIP)	
--	--

Responsible Charge of Significant Engineering Work - Assessment of Professional Competency Profile

The attainment level of the Professional Competency Profile is evaluated according to the following Table:

Level		Meaning
5	Very Good	Outstanding performance. Extraordinary fulfillment of requirements
4	Good	Good performance. Fulfillment of requirements
3	Regular	No good, no bad. Partial fulfillment of requirements
2	Bad	Poor, incomplete and inferior. Not focus on the problem
1	No opinion	No opinion. Does not apply

Professional Competency		Evaluation				
		5	4	3	2	1
EC1: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice	●					
EC2: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction in which he/she practices.	●					
EC3: Define, investigate and analyze complex problems	●					
EC4: Design or develop solutions to complex problems	●					
EC5: Evaluate the outcomes and impacts of complex activities	●					
EC6: Recognize the reasonably foreseeable social, cultural and environmental effects of complex activities generally, and have regard to the need for sustainability; recognize that the protection of society is the highest priority	●					
EC7: Meet all legal and regulatory requirements and protect public health and safety in the course of his or her activities	●					

Professional Competency		Evaluation				
		5	4	3	2	1
EC9: Manage part or all of one or more complex activities	●					
EC10: Communicate clearly with others in the course of his or her activities	●					
EC12: Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of his or her complex activities	●					
EC13: Be responsible for making decisions on part or all of complex activities	●					

Note: Each applicable component of the Competence Professional Profile must be attained at the level of 4, at least.

Overall Compliance

OVERALL COMPLIANCE	YES	NO

Date:

APEC Engineer Peru
President

APEC Engineer Peru
Secretary

Attachment 8

Assessment of English Language Proficiency

APEC Engineer Peru

Assessment

MONITORING COMMITTEE

ASSESSMENT OF ENGLISH LANGUAGE PROFICIENCY

Application Number	
Assessment Start Date	

Name of Applicant					
Engineer Professional Title	Title				
	Place				
	Date				
CIP Engineer Registration	Number		Date		
CIP Engineer Registration Discipline					
APEC Engineer Discipline					

English Examination (TOEFL, TOEIC, Cambridge or equivalent)	
Reading Score (%)	
Listening Score (%)	
Speaking Score (%)	
Writing Score (%)	

English Report on Engineering Project or Program							
Length (at least 2000 words)	Yes		No				
Clarity	Very Good		Good		Regular		Bad
Grammar and Spelling	Very Good		Good		Regular		Bad
Organization	Very Good		Good		Regular		Bad

Date:

APEC Engineer Peru
President

APEC Engineer Peru
Secretary

Attachment 9

- **Continuing Professional Development for APEC Engineer Register**
- **Assessment of Continuing Professional Development**

APEC Engineer Peru

CONTINUING PROFESSIONAL DEVELOPMENT

Continuous development and enhancement of professional competences is very important for engineers to keep themselves updated and effective in a competitive and continuously changing engineering world. Engineers have the responsibility to take proper actions and commitments to develop a lifelong, systematic and planned process to maintain, improve and develop professional competence throughout their professional lives, striving to advance the knowledge and skills within which they practice, while keeping high standards of ethics and professional responsibility.

In a wide sense, Continuing Professional Development is referred to all advances and developments an engineer complete and achieve throughout his/her professional live. It includes continuous training and updating, participation in conferences, congresses, symposiums, seminars, workshops, presentation of technical and opinion papers, attainment of specialized certifications, books publication, getting a patent, receiving professional or personal awards and recognitions, membership and participation in technical or professional societies, performance as opinion leaders, among other activities oriented to the enhancement of both hard and soft skills required to keep competitiveness in the engineer development field.

The Peruvian Engineering Association, through its National Council, Regional Councils and Engineering Discipline Chapters, continuously offers a diversity of courses, conferences, congresses, symposiums, seminars, workshops, and technical visits (inside and outside the country) for the updating, specialization and certification of engineers in modern and recent engineering developments, as well as in the improvement and strengthening of behaviors, attitudes, and values for a rewarding and fruitful personal and professional live that contributes to the advancement and wellbeing of society.

Applicants to APEC Engineer registration must show that they are engaged in, and committed to, continuing professional development that enhances their performance and assertiveness as engineers. It is required that applicants show evidences that they have dedicated at least 50 equivalent-hours per year to continuing professional development in the last three years.

Activities of Continuing Professional Development in Engineering

Considering that engineering is a profession mostly related to the creation, application and management of technology, usually the following activities and achievements are considered as continuing developments in the engineering profession:

- Attendance at training courses or lectures delivered by recognized academic or professional institutions. Usually, these institutions award a certificate or diploma when the participant completes a minimum number of attendance hours, pass an examination, or complete an assignment.
- Attendance at conferences, congresses, symposiums, seminars or workshops organized by recognized academic or professional institutions. Usually, these institutions award a certificate or diploma when the participant completes a minimum number of attendance hours.
- Attendance at in-house training courses at companies, mostly on subjects directly related to engineer duties and responsibilities at job.
- Presentation of technical and opinion papers in conferences, congresses, symposium, seminars or workshops organized by recognized academic or professional institutions. In most cases, the paper has passed by a peer reviewed process with suggestions for correction and improvement.
- Publication of technical and opinion papers in relevant written media such as journals, magazines and newspapers. These papers usually have to pass by a careful review process by specialists in the field before getting acceptance for publication.
- Publication of books in engineering, technology, management or other related field.
- Obtaining specialized certifications in subjects of engineering, technology or any other related field. The certifications are awarded by recognized institutions after the approval of a set of examinations. Certifications are usually valid for a given period of time.
- Advising to students on final research projects, or to application engineers for solving specific problems in industry. Usually this advising is publicly recognized in the written documents resulting from the research or application project.
- Dictation of courses at universities or higher-education institutions at undergraduate or graduate levels.
- Attainment of Master or Doctor degrees from recognized universities or higher-education institutions.
- Obtaining awards or public recognitions by outstanding outcomes of engineering work or outstanding personal contributions to society. The awards are issued by recognized and well-known institutions.
- Obtaining patents by innovative product or services.

- Active participation in technical or professional societies serving as board member, member of technical working groups, society integration groups, and other groups or working committees.
- Participation in governmental councils, committees, or working groups in representation of a professional society or selected by his/her knowledge and competence in the field. It also includes participation in technology normalization/standardization, markets regulation, legal issues, and so on.
- Performance as opinion leader providing useful comments, insights, thoughts or advice on any relevant issue regarding technology and its relationship with society.

Subjects Considered for Continuing Professional Development

The subject of courses, conferences, congresses, symposiums, seminars, workshops, or any other activity of Continuing Professional Development, could be on general topics or engineering/technology related topics.

- General topics include subjects on professional ethics, development of leadership and negotiating skills, foreign languages, and any other subject pointing to enhance the engineer cultural background, and improvement of his/her personal effectiveness and assertiveness in human and community relations.
- Engineering and technology related subjects include topics on new developments, applications, management, economics, regulation, legislation, standardization, and safety regarding engineering and technology. Engineering subjects are more valued than general subjects when assigning equivalent-hours for computing the time of continuous professional development.

Assignment and Recognition of Equivalent-Hours for Activities of Continuing Professional Development

Applicants for APEC Engineer registration should complete at least 50 equivalent-hours of continuing professional development per year in the last three years. For the assignment of equivalent-hours to the different activities of professional development the following Table will be considered. Considering the wide variety and relevance of activities, the Table does not assign fixed equivalent-hours for each activity, but it defines upper-limits for the assignments of equivalent-hours. The Table also includes a weightings column with the factors to weight each activity for computing the total number of equivalent-hours of continuing professional development per year.

This Table does not stay invariable in time, but it could be adjusted according to new developments in engineering, industry, legislation, market conditions, and so on. The Table will be revised, and updated if required, once per year following the procedures of the Monitoring Committee.

Table. Assignments of Equivalent-Hours and Weightings

	Activity of Attainment	Equivalent-Hours	Weight
01	Attendance at courses on engineering or technology subjects and related fields organized by recognized institutions. Certificate is awarded after the participant passes a graded examination.	No more than the number of course effective hours.	1.00
02	Attendance at congresses, conferences, symposiums, workshops and seminars on engineering or technology subjects , organized by recognized institutions.	No more than 15 equivalent-hours per event.	1.00
03	Attendance at courses, congresses symposiums, conferences, workshops and seminars on general subjects , organized by recognized institutions.	No more than 10 equivalent hours per event. Total equivalent-hours in 3 years must be less than 1/3 of total equivalent-hours of engineering and technology related events.	1.00
04	Attendance at in-house training courses at companies.	No more than 10 equivalent-hours per course on engineering or technology topics. Up to 5 equivalent-hours per course on general topics.	0.75
05	Presentation of technical papers or opinion papers in congresses, conferences, symposiums, workshops or seminars.	No more than 10 equivalent-hours per paper.	1.25
06	Publication of technical papers and opinion papers in journals newspaper, magazine and other recognized written media.	No more than 15 equivalent-hours per paper.	1.25
07	Publication of books on engineering, technology, management or other related field.	No more than 25 equivalent-hours per book.	1.25

	Activity of Attainment	Equivalent-Hours	Weight
08	Obtaining specialized certification on engineering or technology related topics.	No more than 20 equivalent-hours per certification.	1.25
09	Advising to students on final research projects, or to application engineers for solving problems in industry.	No more than 5 equivalent-hours per advised project. Must be less than 10 equivalent-hours per year.	1.0
10	Dictation of courses at universities or superior education institutions.	No more than 10 equivalent-hours for undergraduate engineering courses. No more than 5 equivalent-hours for engineering technology courses. No more than 15 equivalent-hours for graduate courses.	1.00
11	Attainment of Master and Doctor degrees.	No more than 25 equivalent-hours for Master degree. No more than 30 equivalent-hours for Doctor degree.	1.25
12	Obtaining awards and recognitions issued by representative institutions.	No more than 10 equivalent-hours per award.	1.25
13	Obtaining patents by innovative products or services.	No more than 30 hours per individual patent. No more than 15 hours per group patent.	1.50
14	Participation in governmental councils, committees, or working groups, in representation of a professional society or selected by his/her knowledge and competence in the field.	No more than 10 equivalent-hours per year.	1.25
15	Active participation in technical or professional societies serving in the board or working groups.	No more than 10 equivalent-hours per year.	1.00
16	Performing as opinion leaders in mass media on relevant issues regarding technology or society.	No more than 5 equivalent-hours per year.	1.00
17	Private reading and training on technical issues.	No more than 10 equivalent-hours per year	0.75
18	Private reading and training on general subjects required for professional development.	No more than 5 equivalent-hours per year	0.50

Informal learning and training could also be considered as far as it results in published documents or competence improvements. The Monitoring Committee will carefully evaluate the pertinence and relevance of the informal learning and training, and assign the corresponding number of equivalent-hours.

For the assignment of equivalent-hours to activities not included in the Table, the Monitoring Committee will make an appropriate assignment justifying the rationale behind its decision.

For assignment and recognition of equivalent-hours, the Monitoring Committee will take into account the following considerations:

- Effective hours dedicated to the activity.
- Relevance of the subject covered by the activity.
- Relevance of the institution organizing the event or activity.
- Relevance of the journal or magazine where the paper is published.
- Significance and relevance of the work or duty performed.
- Impact and relevance of the activity in society.
- Stakeholders affected or benefited by the activity.

If deemed pertinent, instead of the requirement of 50 equivalent-hours per year, the Monitoring Committee could also consider the acceptance of 150 equivalent-hours accumulated in the last three years.

APEC Engineer Peru**CONTINUING PROFESSIONAL DEVELOPMENT FOR
APEC ENGINEER REGISTRATION**

1. Attendance at congresses, conferences, workshop and seminars. Last three years.
In descending order starting with the most recent.

No.	Event	Organizer	Date	Duration (Hours)	Place
1					
2					
3					
4					

2. Attendance at university courses and specialization courses. Last three years.
In descending order starting with the most recent.

No.	Course	University	Date	Duration (Hours)	Place
1					
2					
3					
4					

3. Publication and presentation of technical papers and opinion papers in journals and other written media. Last three years. In descending order starting with the most recent.

No.	Paper Title	Authors	Journal	Date
1				
2				
3				

4. Presentation of technical papers in congresses, conferences, workshops, seminars. Last three years. In descending order starting with the most recent.

No.	Paper Title	Authors	Event	Date
1				
2				
3				

5. Academic degrees. Last three years.

Master Degree			
Degree in:	University	Date	Place

Doctor Degree			
Degree in:	University	Date	Place

6. Technical and professional certifications. In descending order starting with the most recent. Last three years.

No.	Certification	Certifier	Date	Validity (Years)
1				
2				

7. Current membership in Professional and Technical Societies.

No.	Institution / Society	Status / Level	Period of Membership	Main Activities
1				
2				
3				

8. Other activities. In descending order starting with the most recent. Last three years.

No.	Activity	Institution	Date		Brief Description
			From	To	
1					
2					
3					

Note. Supporting documents are required to validate applicant experience.

I hereby swear that the above descriptions are true.

Date:

Applicant Name:

Signature:

APEC Engineer Peru

Assessment

MONITORING COMMITTEE

ASSESSMENT OF CONTINUING PROFESSIONAL DEVELOPMENT

Application Number	
Date	

Name of Applicant		
Engineer Professional Title	Title	
	Place	
	Date	
CIP Engineer Registration Number		
CIP Engineer Registration Date		
CIP Engineer Registration Discipline		
APEC Engineer Discipline		

**Assessment of Continuing Professional Development
(Year 1 corresponds to the most recent year and so on)**

Activity	Weight	Hours				Observations
			Year 1	Year 2	Year 3	
Attendance at courses on engineering and technology subjects and related fields.	1.00	Proposed				
		Accepted				
Attendance at congresses, conferences, workshops and seminars. Engineering and technology subjects.	1.00	Proposed				
		Accepted				
Attendance at courses, congresses, conferences, workshops and seminars. General subjects.	1.00	Proposed				
		Accepted				
Attendance at in-house training at companies		Proposed				

Activity	Weight	Hours			Observations
			Year 1	Year 2	
		Accepted			
Presentation of technical papers or opinion papers in congresses, conferences, workshops, seminars.	1.25	Proposed			
		Accepted			
Publication of technical papers and opinion papers in journals and other written media.	1.25	Proposed			
		Accepted			
Publication of book on engineering, technology, management or other related field.	1.25	Proposed			
		Accepted			
Specialized certification on engineering or technology.	1.25	Proposed			
		Accepted			
Advisor of graduate students research projects.	1.00	Proposed			
		Accepted			
Dictation of courses at universities.	1.00	Proposed			
		Accepted			
Master and Doctor degrees. Postgraduate courses and diplomas.	1.25	Proposed			
		Accepted			
Awards and recognitions	1.25	Proposed			
		Accepted			
Patents for innovative products or services.	1.50	Proposed			
		Accepted			
Participation in governmental councils, committees or working groups	1.25	Proposed			
		Accepted			

Activity	Weight	Hours			Observations
			Year 1	Year 2	
Active membership in Professional and Technical Societies.	1.00	Proposed			
		Accepted			
Opinion leader on relevant issues regarding technology or society	1.00	Proposed			
		Accepted			
Private reading and training on technical issues.	0.75	Proposed			
		Accepted			
Private reading and training on general subjects required for professional development.	0.75	Proposed			
		Accepted			
TOTAL ACCEPTED					

SUMMARY			
	Year 1	Year 2	Year 3
Continuing Training for Professional Development			

OVERALL COMPLIANCE	YES	NO

Date:

 Representative of Engineering
 Discipline Chapter

 Representative of Engineering
 Discipline Chapter

Attachment 10

Swearing Statement of Commitment for APEC Engineer Register

**APEC Engineer Peru
MONITORING COMMITTEE**

**SWEARING STATEMENT OF COMMITMENT
FOR APEC ENGINEER REGISTRATION**

By signing below, I,, with APEC Engineer Register Number, attest and agree to be:

- bounded by the codes of professional conduct established and enforced by APEC Engineer Peru, the Peruvian Engineers Association and by any other jurisdiction within which I practice as engineer;
- held individually accountable for my actions, both through requirements imposed by the licensing and registering body in the jurisdictions in which I work and through legal processes.

I hereby swear that my compromise, commitment and agreement are true.

Date:

Applicant Name:

Signature:

Attachment 11

**Evaluation of the Attainment Level of the IEA Professional Competence Profile
Through Measurable Capacities**

Evaluation Based on IEA Professional Competence Profile

Minimum Standard of Competence an Engineer Must Demonstrate

Professional Competence	Measurable Capacities	Compliance	
		YES	NO
EC1: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice.	Demonstrate solid technical competence in the different areas and levels of the profession.		
	Correctly apply modern engineering methodologies and technologies.		
	Identify and apply appropriate engineering norms and standards issued by outstanding engineering organizations.		
EC2: Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction of practice	Demonstrate solid technical competence in the different areas and levels of the profession.		
	Identify and apply the norms, regulations and legal considerations required in the jurisdiction of practice.		
	Identify and respect social and cultural considerations required in the jurisdiction of practice.		
EC3: Define, investigate and analyze complex problems using data and information technologies where applicable	Define and analyze complex problems clearly identifying their scope, constraints and goals.		
	Identify and apply appropriate data and/or the information technologies required for an effective analysis and solution of the problem.		
EC4: Design or develop solutions to complex problems considering a variety of perspectives and taking account of stakeholder views	Identify stakeholder requirements and needs, and translate them into the formulation of a complex (design) problem.		
	Design or develop solutions satisfying realistic technical and economic considerations.		
	Verify the compliance of social, legal and environmental constraints.		
EC5: Evaluate the outcomes and impacts of complex activities	Evaluate the outcomes of their activities on the attainment of proposed goals and objectives.		
	Evaluate the impact of their actions on society wellbeing and environmental sustainability.		
EC6: Recognize the foreseeable economic, social, and environmental effects of complex activities and seek to achieve sustainable outcomes*	Identify and estimate the economic impact of the solution to complex problems.		
	Identify the foreseeable social and environmental effects of their activities,		
	Seek to achieve sustainable outcomes considering social benefit.		

Professional Competence	Measurable Capacities	Compliance	
		YES	NO
EC7: Meet all legal, regulatory, and cultural requirements and protect public health and safety in the course of all activities	Identify and meet all legal, regulatory and cultural requirements for practice the profession.		
	Take into account safety and risk prevention criteria in the course of all activities.		
	Prioritize the use of environmentally friendly materials, technologies, processes and services.		
EC8: Conduct activities ethically	Project themselves as responsible citizens and professionals, committed with the sustainable wellbeing of society.		
	Respect the intellectual property and acknowledge the authorship of other people's works.		
	Strive to fulfill the commitments made in the course of personal and professional activities.		
EC9: Manage part or all of one or more complex activities	Determine the scope and goals of a project, and identify its constraints and limitations.		
	Plan and execute activities for the achievement of goals and objectives.		
	Ensures compliance with the required quality levels in all activities.		
EC10: Communicate and collaborate using multiple media clearly and inclusively with a broad range of stakeholders in the course of all activities.	Express their ideas orally clearly and concisely using the adequate technological and media support.	X	
	Elaborate clear and precise technical documentation properly using engineering norms, symbology and terminology.		
	Collaborate actively and inclusively with a broad range of stakeholders to effectively achieve the goals.		
EC11: Undertake CPD activities to maintain and extend competences and enhance the ability to adapt to emerging technologies and the ever-changing nature of work.	Take at least 50 hours annually of CPD activities.		
	CPD activities include technical topics related to the profession.		
	CPD activities include development of soft-skills and ethical awareness.		
EC12: Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of all complex activities	Recognize complexity as an inherent component of real-world problems having diverse components, conflicting stakeholder interests, and variety of solutions.		
	Identify and analyze the competing requirements of complex problems, and analyze them to issue fair and thoughtful judgments.		
	Anticipate the potential outcomes of solutions to complex problems considering risks and uncertainties.		

Professional Competence	Measurable Capacities	Compliance	
		YES	NO
EC13: Be responsible for making decisions on part or all of complex activities	Get properly informed on the background of complex problems, and analyze the available information for making timely decisions.		
	Take decisions with a clear attitude to the achievement of goals and objectives.		
	Evaluate the subsequent results of their decisions and actions.		

Attachment 12

Summary of Assessment of Applicant for APEC Engineer Register

APEC Engineer Peru

Assessment

MONITORING COMMITTEE

SUMMARY OF ASSESSMENT OF APPLICANT FOR APEC ENGINEER REGISTRATION

Application Number	
Date	

Name of Applicant		
Engineer Professional Title	Title	
	Place	
	Date	
CIP Engineer Registration Number		
CIP Engineer Registration Date		
CIP Engineer Registration Discipline		
APEC Engineer Discipline		

Certified Compliance with APEC Engineer Criteria

APEC Engineer Criteria	Compliance		Observation
	YES	NO	
Completed an accredited or recognized engineering program, or assessed recognized equivalent			
Been assessed within their own economy as eligible for independent practice			
Gained a minimum of ten years of practical experience			
Spent at least three years in responsible charge of significant engineering work			
Proficiency in English language			
Maintained their continuing professional development at a satisfactory level			
Confirmed signature on statement of compliance with codes of ethics			
Professional Competency Profile			

Final Decision

Action	Check	Comments and Observations
Approved for admission into APEC Engineer Register Peru	<input type="checkbox"/>	
Denied for admission into APEC Engineer Register Peru	<input type="checkbox"/>	
Call the applicant for a meeting	<input type="checkbox"/>	

Date:

Monitoring Committee Member	Signature
(President)	
(Secretary)	

Attachment 13

1. **Evaluation Process of Applicants to APEC Engineering Peru**
2. **Activities of Competency Assessment Commission**

APEC Engineer Peru

Evaluation Process of Applicants to APEC Engineer

Three evaluation processes are opened each year at dates fixed by the Monitoring Committee. The duration of each process, since opening call to final appeal evaluation, is about 60 business days.

1. Application opens

- Dissemination of opening call through web site of Peruvian Engineering Association: National Council, Regional Councils.
- Reception of applicant information.
- Duration: 10 business days.
- Responsible: Secretary of Peru APEC Engineer.

2. Revision of information: completeness, graduating university and program

- Revision of information submitted by each applicant. The following items are considered: completeness of information, accreditation of university program where applicant graduated from.
- Output: List of applicants continuing the process.
- Duration: 3 business days.
- Responsible: Secretary of Peru APEC Engineer.

3. Ethic records of applicants at Peruvian Engineers Association

- Request information to Ethics Tribunal of Peruvian Engineers Association.
- Duration: 3 business days.
- Responsible: Secretary of Peru APEC Engineer.

4. Initial revision of applicants by Monitoring Committee and formation of Competency Assessment Commissions

- Secretary convokes a meeting of Monitoring Committee.
- Secretary presents to Monitoring Committee the file of each applicant including his/her ethic records, and judicial and police records.
- The Monitoring Committee approves by majority vote the applicants who will initiate the competency assessment process. Rationale for denying applicants is stated.
- Commissions are formed for competency assessment process. Each commission is made up of at least three members, with one or more members from the Monitoring Committee.
- Publication of list of applicants continuing the process. Denied applicants are informed by electronic mail with the rationale for the determination.
- Duration: 5 business days
- Responsible: Secretary, Monitoring Committee.

5. Initial meeting with Competency Assessment Commissions

- Secretary convokes a meeting of all Competency Assessment Commissions for explaining assessment and evaluation processes, activities, schedules and evaluation formats.
- Each Competency Assessment Commission defines its working schedule fulfilling deadlines stated by the Secretary.
- A Chair is designated for each Commission.
- Duration: 5 business days.
- Responsible: Secretary, Competence Assessment Commissions.
- Note: If necessary for completing every Competency Assessment Commission, the President of Monitoring Committee could ask for support from the Chairs of corresponding Discipline Engineering Chapters.

6. Competency Assessment Process

- Competency assessment actions:
 - Defense of an engineering project where the applicant had a significant role in the last three years.
 - Personal interview.
 - Revision of applicant documents and supporting materials.
 - Assessment of:
 - Independent engineering practice.
 - At least 10 years of experience after graduation.
 - At least 3 years in responsible charge of significant engineering work.
 - Proficiency in English language.
 - Continuing professional development in last 3 years.
 - Applicant personal and professional trajectory.
 - At the end of the assessment and evaluation process, the Chair of the Competency Assessment Commission submits the completed evaluation formats to the Secretary of the Monitoring Committee.
 - Duration: 20 business days.
 - Responsible: Each Competence Assessment Commission.

7. Meeting of Monitoring Committee for Approval/Denial of Applicants

- Secretary gathers assessment reports from Competence Assessment Commission and convokes a meeting of the Monitoring Committee together with the Chairs of Competency Assessment Commissions.
- Chair of each Competency Assessment Commission presents the assessment results of each evaluated applicant and the recommendation for approval or denial.
- The Monitoring Committee evaluates and deliberates on each assessment result and takes a decision on approval or denial of applicants. If considered appropriate, the Monitoring Committee could require the interview of some applicants for taking final decision.
- Duration: 5 business days.
- Responsible: Secretary, Monitoring Committee.

8. Information of results

- Secretary informs the results, by individual electronic mail, to all approved and denied applicants with the rationale supporting the decision.
- Duration: Three business days
- Responsible: Secretary

9. Swearing ceremony

- Approved applicants are convoked for a swearing ceremony and credentials delivery.
- Duration: 3 business days.
- Responsible: Secretary.

10. Appeals

- Denied applicants could present an appeal within five business days from the date of information o results, providing additional information and well-grounded appeal fundamentals.
- Duration: 5 business days.
- Responsible: Secretary.

11. Monitoring Committee Meeting for Appeals Evaluation

- Secretary convokes a meeting of Monitoring Committee for revision of appeals presented by denied applicants. The Monitoring Committee evaluates and deliberates on each appeal and takes decision on approval or denial of applicants. If considered appropriate, the Monitoring Committee could require the interview of some applicants for taking final decision.
- Final decisions are unappealable.
- Duration: 5 business days.
- Responsible: Secretary Monitoring Committee.

Note: The agenda of the meeting and corresponding materials must be provided to all members of Monitoring Committee at least 48 hours in advance.

APEC Engineer Peru

Activities of Competency Assessment Commission

One or more Competency Assessment Commission are formed depending on the number of applicants and their engineering disciplines. Each commission is made up of at least three members, with one or more members from the Monitoring Committee. Each Commission is led by a Chair elected by the same members.

The activities each Commission has to complete are:

- Participate in the initial meeting with the Secretary of APEC Engineering Peru for understanding the assessment and evaluation process, evaluation formats, and deadlines. At the meeting, the members of each Commission receive the file of applicants to be evaluated by the Commission containing information on the applicant academic, professional and personal trajectory.
- The members of each Commission define the dates to complete the following activities:
 - Applicant defense of an engineering project where he/she had a significant role in the last three years.
 - Personal interview of applicants.
 - Discussion and deliberation meetings.
 - Inform to each applicant by electronic mail the date of the defense of the project and personal interview.
 - Search and gather additional information on applicant personal and professional trajectory from several sources.
 - Assess the academic, professional and personal trajectory of the applicant.
 - Complete all evaluation formats and submit to the Secretary of APEC Engineering Peru within deadline.

Throughout the assessment and evaluation process, the following professional competencies must be considered:

- **EC1:** Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice
- **EC2:** Comprehend and apply advanced knowledge of the widely-applied principles underpinning good practice specific to the jurisdiction in which he/she practices.
- **EC3:** Define, investigate and analyze complex problems
- **EC4:** Design or develop solutions to complex problems
- **EC5:** Evaluate the outcomes and impacts of complex activities
- **EC6:** Recognize the reasonably foreseeable social, cultural and environmental effects of complex activities generally, and have regard to the need for sustainability; recognize that the protection of society is the highest priority

- **EC7:** Meet all legal and regulatory requirements and protect public health and safety in the course of his or her activities
- **EC8:** Conduct his or her activities ethically
- **EC9:** Manage part or all of one or more complex activities
- **EC10:** Communicate clearly with others in the course of his or her activities
- **EC11:** Undertake CPD activities sufficient to maintain and extend his or her competence
- **EC12:** Recognize complexity and assess alternatives in light of competing requirements and incomplete knowledge. Exercise sound judgement in the course of his or her complex activities
- **EC13:** Be responsible for making decisions on part or all of complex activities

Attachment 14

Rules and Procedures of Monitoring Committee Meetings

APEC Engineer Peru

Meetings of the Monitoring Committee

Rules and Procedures

Meetings of Monitoring Committee

The Monitoring Committee must hold meetings at:

- Beginning of each APEC Engineer evaluation process to approve the list of candidates to be evaluated.
- At the end of each evaluation process for approving or denying candidates to APEC Engineer.
- Once per semester to analyze:
 - The march of APEC Engineer Peru and proposal for improvement.
 - The fulfillment of obligations regarding APEC Engineer Agreement.
 - Participation of APEC Engineer Peru representatives in national and international events.
 - Other issues regarding APEC Engineer Peru.

Meeting Agenda and Unfold

- The agenda of the meeting is defined by the President and Secretary of APEC Engineer Peru and informed to all members of Monitoring Committee at least 48 hours in advance. Together with the agenda, all documents and materials are provided to each member for revision.
- The quorum to start a meeting is five members.
- The meeting is conducted by the President (or other designated member of the Monitoring Committee), and each point of the agenda is discussed and deliberated by all members in a proper and ordered manner. All deliberations are approved by majority voting of members attending the meeting. However, decisions for the approval or denial of applicants to APEC Engineer Register require a 3/4 majority voting of members attending the meeting. If required, the president has decisive vote.

Meeting Minute

- All meetings of the Monitoring Committee must conclude with a minute with the following content: meeting date and place, list of all attending members, a brief summary of the deliberation of each point of the agenda, agreements and actions.
- Minutes must be signed by all members that attended the meetings.
- The Secretary of APEC Engineer Peru must keep a register of all minutes and corresponding documents.

Attachment 15

**Peruvian Engineers Association
Colegio de Ingenieros del Peru CIP**

Peruvian Engineers Association

Colegio de Ingenieros del Peru CIP

www.cip.org.pe

The Peruvian Engineers Association is an autonomous non-governmental institution created in year 1962 by Congress Law 14086 updated by Congress Law 24648 of year 1987. The Peruvian Engineers Association is the only entity responsible for undertaking the assessment, registering and licensing of professional engineers for practicing the engineering in the country, as well as for representing, defending and norming the development and the practice of engineering.

In Peru, it is a statutory requirement to be registered and licensed in order to engage in the regulated practice of engineering. To remain licensed, registered engineers must practice within the regulatory standards and norms established by the Peruvian Engineer Association. To December 2023, it has 235,346 registered members distributed in 28 regions and 19 engineering discipline chapters.

A. Government Structure

The governing bodies of the Peruvian Engineers Association:

- National Congress of Regional Councils
- National Council
- Regional Assembly
- Regional Councils

The National Congress of Regional Councils is the highest body of the Association. Its decisions represent the sovereign will of all the members. The National Congress meets once every six months and is chaired by the National Dean.

The National Council is the representative and executive body of the Association, coordinating the activities of the Regional Councils. The National Council leads and conducts the institutional life according to its principles, goals and objectives, and executes the policies and decisions adopted by the National Congress of Regional Councils. The National Council is led by the National Dean.

The Regional Assembly is the highest body of the Peruvian Engineers Association in each region. The Regional assembly meets once every six months and is chaired by the Regional Dean.

The Regional Council is the representative and executive body of the association in each region. It leads and conducts the institutional life in the region and executes the regional development plan. It is led by the Regional Dean. There are 28 Regional Councils throughout the country.

The members of governing bodies including the National Dean and Regional Deans are elected in open elections for a period of three years.

Figure 14.1 shows the government structure of the Peruvian Engineers Association.

B. Engineering Discipline Chapters

Engineers are grouped in specialized chapters in charge of the promotion, development and consolidating of the corresponding engineering discipline in the country. There are 19 engineering discipline chapters:

Agronomic Engineering	Agriculture Engineering
Civil Engineering	Economic Engineering
Electrical Engineering	Electronics Engineering
Forest Engineering	Geological Engineering
Industrial and Systems Engineering	Food and Agroindustry Engineering
Mechanical Engineering	Mechanical-Electrical Engineering
Metallurgical Engineering	Mining Engineering
Fishing Engineering	Petroleum and Petrochemical Engineering
Chemical Engineering	Sanitary and Environmental Engineering
Zoo-Technical Engineering	

Engineering chapters are open in each region at the request of the corresponding Regional Council.

C. Professional Engineers Representing and Defense Bodies

There are two committees in charge of represent and defend engineers in the practice of engineering.

- Committee of Workplace. Groups and represents ordinary members of the Peruvian Engineer Association working in a dependent relationship with the employer.

- Committee of Professional Defense. Defends engineers in issues related to the practice of engineering.

D. Professional Deontological Bodies

The ethical and moral provisions contained in the Professional Deontological Code of the Peruvian Engineer Association are of national scope and mandatory for all engineering professional.

The Peruvian Engineer Association has the following Deontological Bodies:

- Regional Deontological Prosecutor. Receives and evaluates complaints to offenses against professional ethics and qualify them to be presented to the corresponding Ethics Tribunal.
- Regional Ethics Tribunal. Act as a local regional court to resolve the complaints to offenses against professional ethics and offenses against the oath of joining the CIP
- National Ethics Tribunal. Act a second instance to resolve the complaints to offenses against professional ethics and offenses against the oath of joining the CIP.
- Regional Disciplinary Tribunal. Act as a court to resolve complaints to offenses against the institution and its norms and rules.
- National Professional Ad Hoc Tribunal. Act as a court to resolve complaints against offenses to the practice of engineering including the non-licensed practice of engineering.

E. Advisory Bodies

The Peruvian Engineers Association has advisory bodies at national and regional levels.

- National Advisory Board
It is the advising body of the National Council. It is composed by four past National Deans and four past Regional Deans.
- Regional Advisory Board
Each Regional Council has a Regional Advisory Board by all past Regional Deans.

F. Supervisory Bodies

The Peruvian Engineers Association has two supervisory bodies.

- National Audit Commission

Conducts the process of auditing the financial statements of the National Council and inform to the National Congress of Regional Councils on the financial results and financial management of the National Council.

- Regional Audit Commission
Each region has a Regional Audit Commission to conduct the process of auditing the financial statements of the Regional Council and inform to the Regional Assembly on the financial results and financial management of the Regional Council.

G. Institutes

The Peruvian Engineers Association has the following institutes to fulfill and attain its goal and objectives.

- Institute of Professional Engineering Studies
In charge of promoting and conducting the training, specialization and professional updating of engineers to be capable of contributing with the technological development of the country.
- Institute of Prospective and Strategic Development
In charge of conducting prospective studies and strategic development proposals regarding the practice of engineering and the technological development of the country.
- Institute “Peru Plan”
In charge of making proposals of plans and strategies for the Long Term National Development at regional, macro regional and national levels. The proposals are submitted to government policy maker and relevant public and private institutions.
- Institute of International Relations
In charge of conducting the international relations of the Peruvian Engineers Association with the foreign professional institutions as well Peruvian engineer practicing abroad.
- Institute of Social Services
In charge of providing welfare services to members of the Peruvian Engineers Association. Welfare services include health and recreational services, financial and legal advising, insurance and pension.

Source: www.cip.org.pe

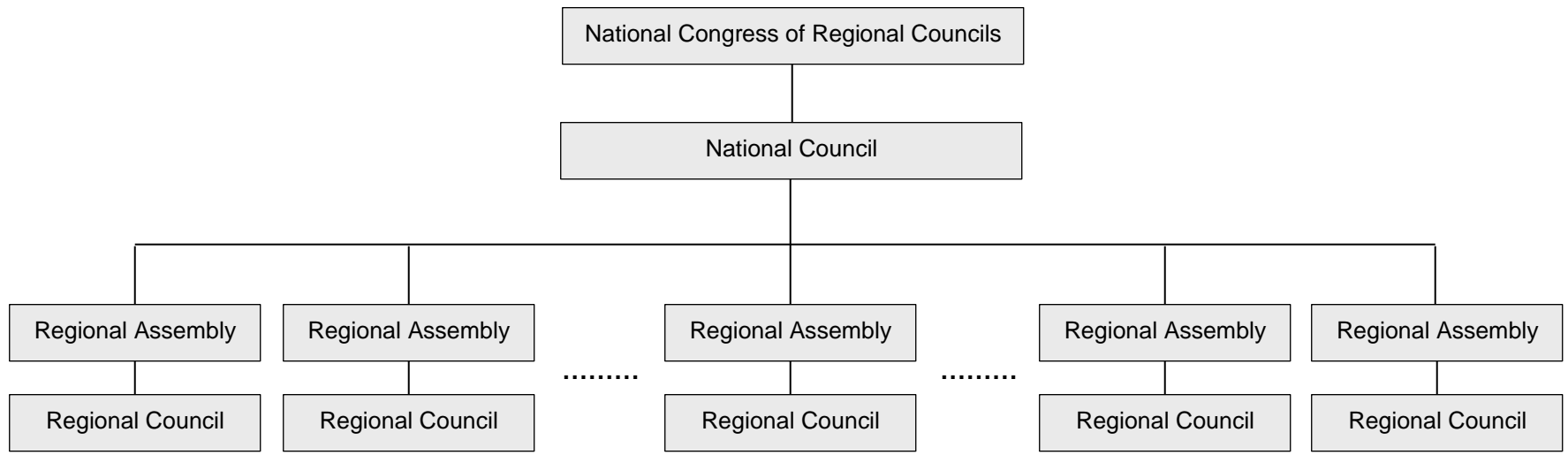


Figure 14.1 Government structure of the Peruvian Engineers Association.

Attachment 16

Registering and Licensing of Engineers by the Peruvian Engineers Association

Registering and Licensing of Engineers by the Peruvian Engineers Association

The Peruvian Engineers Association is the authorized entity for undertaking the assessment, registering and licensing of professional engineers for practicing the engineering in the country, as well as for representing, defending and norming the development and the practice of engineering.

Types of Licensing

The Peruvian Engineers Association offers two types of licensing: ordinary and temporary. Ordinary licensing is mostly awarded to engineers graduated from Peruvian universities or with degree recognized or revalidated by the corresponding Peruvian education authority or university, and temporary licensing is mostly awarded to foreign engineers graduated from foreign universities who will practice engineering in Peru for a short period of time.

Licensing Requirements

- Ordinary Licensing

The requirements for ordinary licensing are:

- Bachelor degree in engineering awarded by an authorized university with recognized five-years engineering programs.
- Title of professional engineer awarded by an authorized university with recognized engineering programs after the approval of the defense of a relevant engineering project.
- Assessment and approval of graduate transcripts with special focus on transferred subjects. Transferring of subjects taken in institutions not recognized by the National Superintendence of University Education SUNEDU (maximum Peruvian university education authority) are not accepted.
- Pass an interview and oral evaluation by representatives of the corresponding engineering discipline chapter assessing the candidate ability to communicate effectively, practical experience, ethical behavior, understanding of engineering impact on society, public safety and environment, as well as knowledge of legal fundamentals regulating the practice of engineering.
- Participation in an induction and motivation session preparatory for swearing ceremony.
- Signed commitment to comply with the code of ethics of the Professional Engineers Association of Peru.

Only ordinary license holders are eligible of listing on the APEC Engineer Register.

- Temporary Licensing

The requirements for temporary licensing are:

- Engineering degree (or engineering title) awarded by a degree-granting institution which has been approved and recognized by the national education authority in the home country.
- Assessment and approval of graduate transcripts and engineering curriculum taken in home university.
- Licensing for engineering practice in the home country.
- Employment contract containing the terms, timing and functions to perform.
- Pass an interview and oral evaluation by representatives of the corresponding engineering discipline chapter assessing the candidate practical experience, ethical behavior, understanding of engineering impact on society, public safety and environment, and knowledge of legal fundamentals regulating the practice of engineering.
- Signed commitment to comply with the code of ethics of the Peruvian Engineers Association.

Temporary licensing is awarded for one year, renewable. Temporary license holders are ineligible for listing on the APEC Engineer Register.

Licensed engineers are awarded a Certificate of Registration / Professional License and included in the register of licensed engineers of the Peruvian Engineers Association accessible from the website for verification.

Procedure

The steps for completing the procedure for registering and licensing of the Peruvian Engineers Association is presented in Figure 15.1.

Maintenance

To maintain the registering and licensing of the Peruvian Engineers Association, engineers must fulfill its norms and regulations, and comply and be bound by the Code of Ethics of the Peruvian Engineers Association.

Source: www.cip.org.pe
www.cip.org.pe/index.php/colegiacion/procedimientos/miembro-ordinario.html

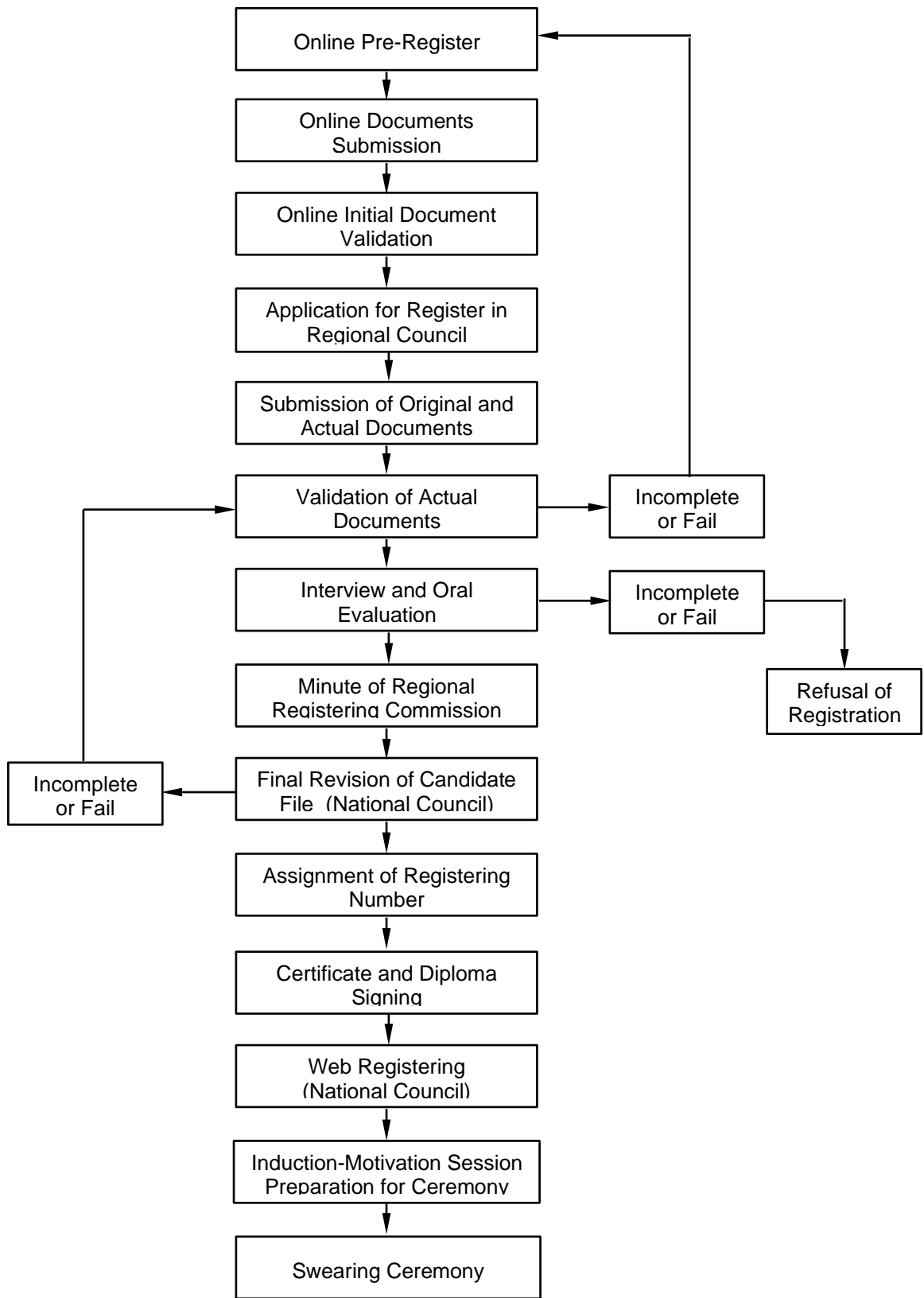


Figure 15.1. Flow diagram of the process for registering and licensing at the Peruvian Engineers Association.

Attachment 17

Code of Ethics of the Peruvian Engineers Association

Code of Ethics of Peruvian Engineers Association

The Code of Ethics of the Peruvian Engineers Association contains the duties, values, and ethical and moral norms governing the practice of engineering in the country.

Engineering is an important profession with significant impact in the wellbeing and progress of society. Engineers are expected to exhibit the highest standards of integrity, honesty, responsibility and seriousness in the fulfillment of their professional activities, taking care of the protection of public health, safety and welfare.

Engineers should promote and defend the integrity, honor and dignity of the profession, contributing with their work and conduct to the creation of a public consensus of respect and appraisal of the engineering making it a prestigious and transcendental profession.

Engineers recognize and make theirs the principles, norms and code of ethics of the Peruvian Engineers Association. Engineers having knowledge of any alleged violation of this Code shall report thereon to appropriate professional bodies and, when relevant, also to public authorities, and cooperate with the proper authorities in furnishing such information or assistance as may be required.

In the following, the main points and clauses of the Code of Ethics of the Peruvian Engineers Association of Peru will be presented. The complete Code can be found in the web site: http://www.cdlima.org.pe/docs/Codi_Deontologico.pdf

Regarding to Relationship with Society

- Engineers must realize that health, safety, good and welfare of the public, as well as the country technological development, depend on engineers' judgments and decisions incorporated in devices, buildings, structures, machines, products, software and processes. For no reason they will put their knowledge at the service of everything that affects peace and health.
- Engineers shall care that economic, natural and material and human resources are rationally and appropriately used, avoiding their abuse or waste, ensuring the fulfillment of environmental preservation norms and regulations.
- Engineers shall practice engineering according to technical and scientific rules, diligently proceeding and authorizing drawings and documents only when they are adequate and safe, according to the rules of engineering.

- Engineers who notice facts or conditions that may threaten the life, health, safety or property should draw the attention, directly or through the Regional Ethics Tribunal, of the corresponding responsible entities and competent authorities.

Regarding to Relationship with the Public

- Engineers shall be objective and truthful in their reports, statements or professional testimonies. Engineers shall express opinions on engineering issues and facts only when they are based on a proper analysis and knowledge of facts based on technical competence and sincere conviction.
- Engineers, when explaining their work merits or emit opinions on engineering facts, shall act with seriousness and conviction, being careful for not creating conflicts of interest, striving to explain and broad the public knowledge about engineering and the services it provides to society.
- Engineers shall not participate in the dissemination of false, unfair or exaggerated concepts about engineering and its products, methods and techniques, in public or private activity.

Regarding to Professional Competence and Development

- Engineers shall perform engineering work only when they have knowledge and skills or experience in the specific field of engineering concerned.
- Engineers must not accept jobs and duties that require knowledge and skills different to his/her field of expertise. Their services must be limited to those aspects for which they are truly qualified.
- Engineers shall validate drawings, documents and work only when they have been prepared for them, or carried out under his/her supervision.
- Engineers must keep their knowledge continuously updated through such means as continuing education courses, technical material reading, participation in technical meetings and seminars, and professional practice.

Regarding to Personal Promotion and Marketing

- Engineers may promote their professional services only when it does not contain misleading or boastful information, or in any way demeaning of the profession. When promoting their services, engineers shall not guarantee results when technical, economic or social reasons make them impossible to fulfill.

Regarding the Arrangement of Professional Services

- Engineers must form their professional reputation based on the quality of their professional services and must compete in a fairly or justly way.
- Engineers shall not attempt to obtain, offer to undertake, or accept contracts for which other engineers have been already selected, unless they have evidence that the employment of the other engineers have concluded.
- Engineers shall not accept compensation from more than one source for the same work, unless the facts are fully known and expressly accepted by the parties concerned.
- Engineers shall not accept work in conditions of term, fees, salaries, payment or other that may affect their professional judgment or the quality of their services.

Regarding the Provision of Professional Services

- Engineers shall faithfully serve their employers and clients.
- Engineers shall avoid foreseen or foreseeable conflicts of interests with their employers or clients and shall promptly inform them of the existence of any association, relationship or circumstance that may affect their engineering judgment or the quality of their professional services.
- Engineers must notify to their employees or customers if they consider that the entrusted work will not attain have the expected success.
- Engineers must maintain secrecy and discretion regarding any data and fact related to their clients or employers provided they do not contravene this code or the law requires them to lift the confidentiality.

Regarding the Relationship with Personnel

- Engineers who act as employers or responsible officials should fully guarantee the civil and labor rights of the dependent personnel.

- Engineers must keep to colleagues and personnel a nondiscriminatory treatment respect to working conditions, opportunities and human relationships, providing in due time, the remunerations commensurate to the professional nature and importance of the work.
- Engineers are required to care for and respect to his staff, ensuring their safety, wellbeing and health.

Regarding the Relationship with Colleagues

- Engineers shall give due recognition to the work of other engineers and respect the business interests of others.
- Engineers shall not review or emit opinion on fellow engineers work for the same client, unless the latter are aware of it.
- Engineers shall not damage the professional reputation, prospects, practice or employment of another engineer.
- Engineers will refrain from publicly issuing adverse judgments on the actions of their colleagues or pointing professional mistakes and not damage the reputation of other professionals, unless it is necessary for compelling reasons of public interest.
- Engineers shall not associate with persons or firms engaged in fraudulent trade or professional practice, dishonest or unethical behavior, nor allow the use of their names or their companies on commercial activities undertaken by such individuals or firms.
- Engineers in no case shall attribute to themselves the authorship of the works carried out by other engineers.

Source: www.cip.org.pe
www.cdlima.org.pe/docs/Codi_Deontologico.pdf