

# **Professional Development of Engineers**

**(Procedures Manual and Guidelines)**



**2009**

**(Updated upto 9<sup>th</sup> April 2012)**

**Engineering Professional Development Committee (EPDC)  
Pakistan Engineering Council**

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**Part - 1**

# **Introduction**

# 1. INTRODUCTION

## 1.1 Introduction

In a rapidly changing world where legislative, social and economic developments directly affect the environment in which we live and work, and where technological advancements provide radically different ways of working, **Continuing Professional Development (CPD)** provides a means whereby we can keep abreast of these changes, broaden our skills and be more effective in our professional work.

**Continuing Professional Development (CPD)** or **Continuing Professional Education (CPE)** is the means by which members of professional bodies maintain, improve and broaden their knowledge and skills for developing personal qualities required in their professional lives.

Pakistan Engineering Council under its Act has mandate for introducing and ensuring continued professional development activities amongst its growing community of engineers and has devised a comprehensive framework titled **Professional Development of Engineers (Bye Laws – 2008)** approved by the Government of Pakistan.

The main objective is to develop competence and ability of engineers for the application of theoretical knowledge to practical situations and to evolve innovative solutions to real life problems while adhering to professional ethics and acquisition of a broader understating of their obligations to society.

## 1.2 Strategy/ Plan for Professional Development Activities

As per provisions of CPD Byelaws, from July 2010 onwards, most of Continuing Professional Development activities (courses, training workshops, etc.) may be undertaken by the Professional Engineering Bodies registered with PEC as per provision of Section 16 of PDE Bye-Laws 2008.

PEC will continue charging nominal course fee per participant. However, PEBs imparting CPD activities will decide fee on the basis of course type and efforts should be made to charge the fee as minimum as possible. The courses/ CPD activities will be planned by the PEBs according to the specified criteria and guidelines (Section 16 of Bye-Laws). Such bodies will also provide schedule of courses and share verified list of participants with PEC to maintain transparent record of CPD activities and points for all the registered/ professional engineers. PEC Regional Offices will play role of facilitator for the professional bodies in organizing CPD activities.

## 1.3 PEC Activities for CPD

PEC regularly conducts CPD activities for its members including short courses (refresher courses, management, conduct etc.); workshops; seminars; expert lectures etc. All CPD carry credit points as defined in the CPD Byelaws. PEC announces yearly calendar of CPD activities through its website ([www.pec.org.pk](http://www.pec.org.pk)) and also through newspapers for information of the engineers. Besides, nominations are also sought through potential organizations.

# **Part – 2**

## **Professional Development of Engineers Byelaws 2008**



# The Gazette of Pakistan

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PART II

Statutory Notifications (S.R.O.)

GOVERNMENT OF PAKISTAN

SCIENTIFIC AND TECHNOLOGICAL RESEARCH DIVISION  
(Ministry of Science and Technology)

NOTIFICATION

*Islamabad, the 26th December, 2008*

**S.R.O. 1310(I)/2008.-** In exercise of powers conferred by section 25 of the Pakistan Engineering Council Act, 1975 (V of 1976), the Governing Body, with the previous sanction of the Federal Government, is pleased to make the following bye-laws, namely:-

1. **Short title and commencement.-** (1) These bye-laws may be called the Pakistan Engineering Council, Professional Development of Engineers, Bye-Laws, 2008.

(2) They shall come into force on the 10<sup>th</sup> of July, 2010 and shall apply to the registered engineers and professional engineers.

2. **Definitions.-** (1) In these bye-laws unless there is anything repugnant in the subject or context,-

(a) “Act” means the Pakistan Engineering Council Act, 1975 (V of 1976);

- (b) “Chairperson” means the Chairperson of the Engineering Professional Development Committee;
- (c) “Committee” means the Engineering Professional Development Committee;
- (d) “CPD” means continued professional development;
- (e) “credit point” means quantification of acknowledgement of a student’s completion of a course achievements as prescribed;
- (f) “developmental activities” means attending programmes to update knowledge;
- (g) “EPE” means engineering practice examination administered under the Council based on professional knowledge of an engineering discipline;
- (h) “formal education” means higher education or qualification recognized by the Council or the Higher Education Commission, as the case may be;
- (i) “individual activities” means publications of technical articles in recognized journals, part time lecturing and other participatory activities etc;
- (j) “registered person” means an engineer registered with the Council as registered or professional engineer; and
- (k) “work based learning” means engineering related work including management.

(2) The words and expressions used but not defined herein shall have the same meanings as are given to them under the Act.

3. **Engineering Professional Development Committee.-** As soon as, may be after the commencement of these bye-laws, there shall be constituted, by notification in the official Gazette, a Committee called the Engineering Professional Development Committee working under the directions of the Governing Body. The Committee shall take all measures and perform all functions which may be necessary for professional development of all engineers registered with the Council. The Committee shall administer and evaluate CPD and EPE. The headquarters of the Committee shall be located at Islamabad and may have its branch offices at other locations.

4. **Composition of the Committee.-** (1) The Committee shall consist of the following, namely:-

- (a) Vice-Chairman of the Council shall be the Chairperson of Committee to be nominated by the Governing Body. The Chairperson shall cause to complete formalities for nomination or election of members of the Committee within three months of his date of nomination;
- (b) Registrar;



- (c) six members nominated by the Council from within the Governing Body. One of the members may be from industry and two members nominated by the government departments;
- (d) three members from engineering universities. Each engineering university shall nominate one member for the Committee. These nominated members shall finally elect, three members (two from public sector universities and one from private sector university) from amongst themselves to be members of the Committee in a meeting to be presided over by the Chairperson. In case of equality of votes, the Chairperson shall have a casting vote;
- (e) three members from the engineering professional bodies registered with the Council. Each registered body shall nominate one member for the Committee. These nominated members shall finally elect, three members from amongst themselves to be members of Committee in a meeting to be presided over by the Chairperson. In case of equality of votes, the Chairperson shall have a casting vote; and
- (f) Executive Director of the Committee.

(2) The Executive Director of the Committee shall also act as Secretary of the Committee.

5. **Powers and functions of the Committee.-** The following shall be the powers and functions of the Committee, namely:-

- (a) to prescribe, monitor and review standards of professional development in co-ordination with the Council such that these are in line with internationally recognized standards;
- (b) to coordinate implementation of CPD activities;
- (c) to regulate the engineering professional bodies imparting CPD;
- (d) to record and quantify the CPD for each registered person. The Committee shall issue a certificate regarding present position of CPD to a registered person on demand against a prescribed fee;
- (e) to conduct EPE and publish results of the same; and
- (f) to perform any other function related to professional development of engineers.

6. **Tenure.-** Members of the Committee other than the Registrar and the Executive Director shall hold office for a period not exceeding three years. A member may not serve for more than two consecutive terms. At least three of present members should be re-appointed to maintain continuity. A member shall immediately vacate office, if he,-

- (a) is convicted of any offence under any law; or

(b) has been removed from an office on account of misconduct.

7. **Disclosure of interest.-** If a member has a direct or indirect interest in any matter to be dealt with at any meeting of the Committee, that member shall declare such matter to the Chairperson in writing and shall not attend the meeting on that matter and shall not influence any other member in any way related to the matter concerned.

8. **Executive Director.-** (1) The Council shall appoint an Executive Director of the Committee on such terms and conditions as determined by the Council.

(2) The Council shall create a separate Secretariat for the Committee.

9. **Meeting of the Committee.-** (1) The Committee shall meet at least three times in one calendar year.

(2) The Chairperson of the Committee or in his absence the person presiding over the meeting shall give each member fifteen days written notice of the time, date, place of the meeting along with its agenda.

(3) In the absence of the Chairperson, a member of the Committee elected by the members present, shall preside over the meeting of the Committee.

(4) The Committee shall keep a register of attendance and minutes of its meetings and shall circulate copies thereof to the members of the Committee within two weeks after the meeting to which it relates.

(5) The minutes, when confirmed at the next meeting and signed by the person who chairs that meeting, are true and correct record of the proceedings.

(6) The quorum for a meeting of the Committee is thirty *per cent* of its members.

(7) A decision of the majority of the members of the Committee present, at any meeting, constitutes the decision of the Committee.

(8) In the event of an equal number of votes, the person presiding over the meeting shall have a casting vote.

10. **Evaluation and review.-** (1) The committee may review its activities in relation to its goals, objectives and achievements, at least once every three years.

(2) A panel drawn from the public and private sectors and appointed by the Council on the basis of expertise in relation to the functions of the Committee shall undertake the evaluation.

(3) The panel shall submit its report and recommendations to the Governing Body.

11. **Keeping of records and register.-** (1) The Committee shall maintain record of quantification of CPD and results of EPE in respect of all registered persons. For this

purpose, the Committee shall keep and maintain a register of prescribed particulars of registered persons.

(2) The Committee shall provide to every applicant verified and certified record of CPD and EPE against a prescribed fee.

12. **Objectives of CPD and EPE.-** The objectives of CPD and EPE shall include,-

- (a) application of theoretical knowledge to practical situations and to evolve innovative solutions to real life problems;
- (b) application of concepts and ingredients of management to professional works including relevant legal and financial aspects;
- (c) acquisition and application of necessary communication skills;
- (d) knowledge of latest developments in various fields of engineering including information technology for specific and cross disciplinary application; and
- (e) adherence to professional ethics and acquisition of a broader understanding of obligations of engineers to society.

13. **Parameters for professional development of engineers.-** In order to maintain minimum standards of competence, practical knowledge and skills of registered persons, the following parameters shall be followed, namely:-

- (a) for newly registered engineer, first year after graduation shall be a grace period and CPD will be applicable from second year onwards;
- (b) a registered engineer shall have to earn nine credit points in first three years cycle, twelve credit points in next three years cycle and five credit points per year thereafter for renewal of registration under the Act;
- (c) a registered engineer is required to appear for EPE after five years of initial registration and acquire at least seventeen credit points;
- (d) a registered engineer may qualify for registration as professional engineer after qualifying in EPE;
- (e) engineers registered as registered engineer after 2005 are required to show five year experience for EPE which shall be held in 2010 and onwards, with requisite credit points of the years after its applicability;
- (f) professional engineers already registered with the Council are not required to appear in EPE;
- (g) existing professional engineers are required to obtain three credit points per year for renewal of registration, with effect from July 2010; and

- (h) an engineer registered as professional engineer by the Engineers Mobility Forum shall on application be recognized by Council as professional engineer.

**Explanation.-** Engineers Mobility Forum is a multi-national agreement between engineering organizations (Washington Accord, FEANI etc.) in the member jurisdictions which creates the framework for the establishment of an international standard of competence for professional engineering and then empowers each member organization to establish a section of the International Professional Engineers Register.

14. **General requirement and conduct of CPD.-** (1) A registered engineer shall acquire credit points as provided under clause (b) of bye-law 13.

(2) Additional credit points accumulated during any one year may be carried over to subsequent years for renewal of certificate of registration under the Act.

15. **Categories of CPD and its accumulation.-** (1) The CPD programmes include additional qualifications, professional skills, relevant management and communication skills acquired through additional training and experience. These aspects are grouped into the following four different categories of training, namely:-

- (a) **Formal education:** Acquiring knowledge through accredited engineering programmes and related education in management, law, finance, economics and architecture etc. Such activities includes face-to-face education, distance education and others like diploma courses of a minimum six months duration involving specialist presenters or resource persons who are external to the workplace;
- (b) **Work-based learning:** It includes on-job learning that takes place because of the workplace requirements on projects like construction, operation, supervision at site, development of computer programmes or software package, etc;
- (c) **Developmental activities:** It includes attendance of structured educational or developmental meetings over a period of time like conferences, workshops, seminars and refresher courses from Council's approved bodies; and
- (d) **Individual activities:** Publications of technical articles in reputed refereed journals, part time lecturing in an approved technical institution, evaluation of dissertation at post-graduate level as external examiner and other participatory activities in the Council's recognized technical associations or institutions prescribed in bye-law 16.

(2) CPD shall be accumulated in the aforesaid four categories as set out in Annex-A.

16. **Conduct of CPD.-** The Governing Body shall ensure and manage the professional development of engineers in terms of its obligation under the Act. The Committee shall administer the professional development activities according to specified criteria and guidelines laid down by the Council. Professional institutions and associations, CPD academies, engineering universities or colleges and private institutions, registered by the Council may impart CPD in coordination with the Committee. All these institutions, associations and other bodies shall be known as professional engineering bodies in terms of clause (xxiv) of section 2 of the Act. The Council shall ensure that the responsibilities outsourced to these bodies are carried out in a fair, equitable and responsible manner without any profit motives. The Council retains the right to withdraw any outsourced responsibility from a registered professional engineering body if the circumstances so require.

17. **Recording of CPD.-** (1) Unless exempted in terms of bye-law 18, all registered engineers shall, record their CPD activities with the Committee in the following manner, namely:-

- (a) either manually by posting an authenticated copy of certificate received from a professional engineering body to the Committee or electronically in a password-protected private domain for each registered engineer, through Council's website;
- (b) registered persons may record individual CPD activities with the Committee on continuous basis as they occur, provided that all CPD activities undertaken are recorded within sixty days after completion of each activity; and
- (c) all CPD activities shall be backed by authenticated certificate or document issued by a professional engineering body and shall be produced on demand.

(2) When recording CPD activities under clause (1), any registered person who is registered in more than one professional categories shall inform the Committee regarding category of registration which is most appropriate to his area of practice, in which case the Committee evaluates the appropriateness of the CPD activities so recorded in the context of the registration category preferred by such person.

(3) CPD records will be checked and verified by the Committee against requirement of CPD policy and supporting documents provided. In case clarification is required, further information shall be provided to the Committee or an interview may be arranged at a mutually convenient time and place. The verification may take the form of a certificate or result or record of attendance with written verification from the registered CPD provider or institution of CPD activity. False claims shall be treated as serious breach of ethics and invite disciplinary actions under the Act.

18. **Possible exemptions etc., from CPD.-** (1) A registered person undergoing post-graduate studies is not exempt from CPD requirement until after award of the qualification.

(2) A registered person practicing abroad shall meet the same requirements as in Pakistan for initial or renewal of the Council's registration except those registered with 'Engineers Mobility Forum'.

(3) After attaining the age of sixty years, a registered person who continues to carry out engineering works in a consulting capacity or in a salaried position shall continue to acquire three credit points annually for renewal of registration.

(4) After attaining the age of sixty years, a registered person who does not work on a salaried position but works in an advisory role shall continue to acquire one credit point annually for renewal of registration.

(5) A registered person may apply for deferment of CPD. Such cases shall be reviewed by the Committee and decided on merit on case to case basis. Cases of physical disability, serious illness or other extenuating circumstances including non-existence of CPD facilities in very remote areas may be considered for exemption for a reasonable time.

(6) A registered engineer may appear in EPE after a minimum five years of practical experience and he (registered engineer) may be given the following credit of experience if he has obtained a recognized post-graduate engineering degree, as under:-

- |     |      |                    |
|-----|------|--------------------|
| (a) | M.Sc | twelve Months;     |
| (b) | Ph.D | thirty-six Months. |

Provided that the degree is obtained under an accredited engineering programme.

19. **Audit.-** The Council will conduct random audits of up to ten *per cent* of the CPD records annually. If selected for audit, registered person shall be required to send, within eight weeks of initial notification, verification of their CPD activities in the form of a certificate or list of results or record of attendance or receipt of course payment or a written verification from the registered educational institution, which presented the developmental activity.

20. **Non-Compliance.-** In the event of a registered person not complying with the requirements of the CPD, the Council may adopt the following courses, namely:-

- (a) the concerned engineer may be required to follow an approved remedial programme of CPD within a specified period by the Council; or
- (b) refer his case to the Enrolment Committee for taking appropriate action according to the Act, Bye-laws and criteria evolved by the Governing Body.

21. **EPE.-** For assessment of engineering competence, knowledge and skills of an applicant engineer, the Committee shall hold an examination which may be arranged and conducted through local or foreign services hired or availed for the purpose. The EPE is optional for a registered engineer but is an essential part of assessment for the title of

professional engineer.

22. **Eligibility.-** When a registered engineer has attained a minimum of five years of practical experience in relevant field of engineering from a recognized engineering organization or institution or service and has earned requisite credit points, he shall become eligible to apply for EPE in the form Annex-B.

23. **Format of the EPE.-** The format of the EPE shall be as under, namely:-

- (a) the examination shall comprise of three Parts. Part-1 (2 hours) shall be common to all and Part-II (2 hours) and Part-III (3 hours) shall be discipline-based breadth and depth examinations respectively. Part-II and Part-III shall be based on open book method. Syllabus of each part of EPE, duly amended from time to time, shall be finalized by the Committee. Basic parameters of the syllabi of each Part are at Annex-C;
- (b) qualifying marks for each Part shall be sixty *per cent*. Candidate failing in any Part shall be ineligible for next Part. Qualifying all three Parts is mandatory;
- (c) the Examination shall be held twice a year and results shall be published through press and the Council's website; and
- (d) an application for EPE shall be supported by two professional engineers with minimum fifteen years of professional standing or a professional engineer authorized by the Council. A professional engineer supporting a prospective candidate shall send an independent report to the Committee on Proforma attached with the application form at Annex-B.

24. **Fees.-** The Council shall charge such fees as may be specified by it from time to time for CPD and EPE.

25. **Reference to Council.-** Any person aggrieved by any order of the Committee may challenge such order before the Council within thirty days whose decisions shall be final.

CATEGORIES OF CPD

Category	Applicable CPD program	Duration Credit Hrs	Credit Points	Remarks
<b>Category-a</b> <b>Formal Education</b> (Higher Education duly recognized by PEC/HEC)	1. Post-graduate Diploma (PGD)		2	(Above 6 and below 9 months duration)
			4	(9 to 12 months duration)
	2. Award of Post-graduate Degree in Engineering and related subjects like IT, Finance, Management, Law, Economics etc.		4	(Course work only)
			6	(Course work plus research work)
Limit of category-a = 4 credit points /year				All achievements must be supported with records and certificates.
	3. Award of Doctorate (Ph.D) in Engineering		12	
<b>Category-b*</b> <b>Work-based Activities</b>	Work Experience (Engineering related work including relevant aspects of Management)	400	1	
<b>Category-c*</b> <b>Developmental Activities</b>	1. Membership of a recognized professional Association/body		1	National bodies
			2	International bodies (Limit of memberships= 2 to be accounted for valid members annually)
	2. Participation in Training & Development Programmes		1	



**CATEGORIES OF CPD**

<b>Category</b>	<b>Applicable CPD program</b>	<b>Duration Credit Hrs</b>	<b>Credit Points</b>	<b>Remarks</b>
	3. Participation in Conference	02	0.5	
	4. Participation in Seminar	02	0.5	
	5. Participation in Lectures	02	0.5	
	6. Participation in Workshop	One day	1	
	7. Refresher Course/Short Course	One day	1	
<b><u>Category-d*</u></b> <b><u>Individual</u></b> <b><u>Activities</u></b>	1. Invited Lecturer		1.5	Lectures excluding routine teaching at institutions and university.
	2. Symposium Panelist		0.5	
	3. Writing and publishing a Research Article in Journals /Technical Report		1.5 3	National (HEC/PEC approved). International (Publication after a peer review). Only comprehensive engineering works/ reports.
	4. Writing Conference Paper		0.5 1.5	National International
	5. Authoring a Book		5	Approved by a professional body.
	6. Part of activities such as emergency/ recognized social work		1	Professional contribution in such activities.
	7. Participation in			

**CATEGORIES OF CPD**

<b>Category</b>	<b>Applicable CPD program</b>	<b>Duration Credit Hrs</b>	<b>Credit Points</b>	<b>Remarks</b>
	statutory, technical or non-technical committees		1	Active Participation
	8. Managing Technical event		1	National
			2	International

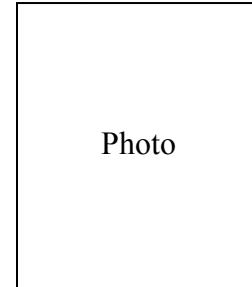
\*Note: Limit for each of above categories (b,c,d) shall be 2 credit points per year



## PAKISTAN ENGINEERING COUNCIL

### APPLICATION FORM FOR ENGINEERING PRACTICE EXAMINATION (EPE)

#### 1. PERSONAL INFORMATION



Name: \_\_\_\_\_

Father's Name: \_\_\_\_\_

PEC Registration No: \_\_\_\_\_ Discipline: \_\_\_\_\_

Gender: \_\_\_\_\_ Domicile: \_\_\_\_\_ Nationality: \_\_\_\_\_

Date of Birth: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(Day) (Month) (Year)

Present Address: \_\_\_\_\_

\_\_\_\_\_

Permanent Address: \_\_\_\_\_

\_\_\_\_\_

Phone Number (Line No): \_\_\_\_\_ Mobile No: \_\_\_\_\_

E-mail: \_\_\_\_\_

#### 2. QUALIFICATION

2.	Qualifications	Name of University/ College/ Institute/Board	Year of Passing	Obtained Marks /Total Marks	%age	Certificate/Degree with discipline
2.1	F.Sc or Equivalent					
2.2	B.E. /B.Sc. Engg. Degree or Equivalent					

2.3	Post-graduate Diploma/Degree or Equivalent					
2.4	Doctorate (Ph. D) or Equivalent					

2.5 Any Other non-engineering qualification (Post-graduation) obtained:

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**Note:** In case of qualification in more than one engineering discipline, indicate field of specialization.

### 3. EMPLOYMENT STATUS

Sr. No.	Name of Company/ Organization	Status (Govt./Semi-Govt/ Autonomous/Private)	Designation	Experience From-To	Experience Years/ Months
3.1					
3.2					
3.3					
3.4					
3.5					
3.6					
3.7					
3.8					

**4. CPD SCORE ACCUMULATED IN LAST FIVE YEARS (20....to 20....)**

<b>Sr. #</b>	<b>Category</b>	<b>Sub-Category (As per Annex-A)</b>	<b>Professional Engineering Body</b>	<b>Credit Hours Claimed</b>	<b>Credit points Claimed</b>	<b>Remarks</b>
4.1	Formal Education (Higher Education duly recognized by PEC/HEC)					
4.2	Work Based Learning (Work Experience, Engineering related work including Management)					
4.3	Developmental Activities (Conferences, Seminars, Workshops, Lectures, memberships etc.)					
4.4	Individual Activities (Symposium Panelist, Authoring of Book, recognized social work etc.)					

5. **ANY OTHER ACHIEVEMENT**

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**Note:** Attach additional sheets if required.

6. **DISCIPLINE OF PROFESSIONAL ENGINEER APPLIED FOR**

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7. **EXAMINATION CENTRES** (For detail visit PEC website)

Sr. No.	Preferred locations in order of priority
7.1	
7.2	
7.3	

8. **FEE**

Prescribed Fee of Rs.....for EPE has been paid in Bank .....  
Branch.....Vide Challan No/Draft No .....Dated.....

9. **DECLARATION**

- I wish to take the EPE for (spring/fall) year 20.....as prescribed by PEC in discipline as mentioned in the application form.
- I undertake to inform the EPDC/PEC of any change in my postal address and profession.
- I have no objection against my EPE process being stopped, should there be inaccuracy in the submitted information.
- I also undertake to abide by the PEC Act, Bye-Laws, relevant rules and Codes of Ethics and Conduct, prescribed for the members of the Council.
- I certify that the above particulars mentioned by me are true and correct.

Date: \_\_\_\_\_ Signature of the Engineer: \_\_\_\_\_

**10. SPONSORS**

From Personal knowledge of the applicant and in consideration of his/her qualifications as stated in the form, we recommend him/her as being in every way a fit and proper person to be certified as Professional Engineer.

**10.1 Sponsor-1**

Name: \_\_\_\_\_ PEC Registration Number: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

Designation: \_\_\_\_\_ Status: \_\_\_\_\_

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

Date: \_\_\_\_\_ Official Stamp: \_\_\_\_\_

**10.2 Sponsor-2**

Name: \_\_\_\_\_ PEC Registration Number: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

Designation: \_\_\_\_\_ Status: \_\_\_\_\_

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

Date: \_\_\_\_\_ Official Stamp: \_\_\_\_\_

**Note:** An application shall be supported or sponsored by two professional engineers with fifteen years of experience or a Professional Engineer entitled by the Council.

**Instructions:**

Please ensure provision of following documents with the application form:

1. Attested copy of valid PEC registration certificate
2. Attested copies of experience certificates
3. Supporting documents of CPD activities
4. Attested copy of NIC and Domicile
5. Two passport size photographs (duly attested on the back side)
6. EPE fee paid receipt

**Applications must be sent to:**

EPE Directorate, EPDC,  
Pakistan Engineering Council,  
Ataturk Avenue (East), G-5/2,  
Islamabad.

**To be filled by each Sponsor**  
**(Confidential when completed)**

**To be filled by each sponsor and sent separately to EPDC/PEC in a sealed envelope;**

Report on Mr/Miss \_\_\_\_\_ S/O,D/O \_\_\_\_\_

Discipline: \_\_\_\_\_ PEC Registration No: \_\_\_\_\_

1. How long have you known the applicant ..... Years

2. In what capacity.       Employer     Advisor     Sr. Colleague  
  
                                  Colleague     Friend     Client

3. Do you recommend the applicant for certification as Professional Engineer.

Yes       No

4. If yes please give your own impression of the candidate and why you consider him or her a fit person to be certified as Professional Engineer (PE) in around 50 words.

Signature: \_\_\_\_\_ Name of Sponsor: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

PEC Registration No: \_\_\_\_\_

Correspondence Address: \_\_\_\_\_

Contact No: \_\_\_\_\_ Email id: \_\_\_\_\_

Sent to:-

EPE Directorate, EPDC, Pakistan Engineering Council,  
Ataturk Avenue (East), G-5/2, Islamabad



**(FOR OFFICE USE ONLY)**

**A. Accounts Section**

Mode:

Cash	Cheque	DD
------	--------	----

Received Rs. \_\_\_\_\_

Receipt No. \_\_\_\_\_ Chq/DD No. \_\_\_\_\_

*(Signature of Accounts Clerk)*

*(Accounts Executive)*

**B. CPD Directorate**

1. Discipline: \_\_\_\_\_ 2. PEC Reg No: \_\_\_\_\_

3. Renewal Upto: \_\_\_\_\_ 4. Registration Year: \_\_\_\_\_

5. Experience: \_\_\_\_\_ 6. CPD Credit Points: \_\_\_\_\_

7. Recommendations of CPD Directorate:

(Eligible / Not Eligible)

**(CPD Directorate)**

**C. EPE Directorate**

10. EPE Roll No: \_\_\_\_\_ 11. EPE Centre: \_\_\_\_\_

12. EPE Grading:

Sections	Marks Obtained	Total Marks	Percentage	Remarks
Part-I				
Part-II				
Part-III				
Total				

13. For PE Title

(Selected / Not Selected)

Discipline: \_\_\_\_\_

Registration Number: \_\_\_\_\_

**(EPE Directorate)**

**SYLLABUS FOR EPE**

**PART-I**

This is *common to* all disciplines comprising 30 questions of one mark each (total marks 30) with the duration of 2 hours.

<b>Syllabus Components</b>	<b>Description</b>	
Management (Engineering Related)	Quality issues	Basic Concepts, application and role etc
	Finance	Cost Analysis, Financial Discipline etc.
	Procurement/ Legal	Contracts, Arbitration, Guarantees, Liabilities etc.
	Latest trends	Emerging technologies and their applications etc.
Written Communication Skills	English Language communication skills. etc	
Ethical and social issues	Code of ethics and professional obligation of engineers etc.	

**PART-II**

This is a discipline based **open book breadth examination** comprising 30 multiple choice questions of one mark each (total marks 30) with the duration of 2 hours. The syllabus will generally conform to latest (updated) BE/equivalent qualification.

<b>Discipline</b>	<b>Description</b>
Civil	<u>Latest Syllabus for Civil Engineering</u>
Electrical	<u>Latest Syllabus for Electrical Engineering</u>
Mechanical	<u>Latest Syllabus for Mechanical Engineering</u>
Chemical	<u>Latest Syllabus for Chemical Engineering</u>

Electronics	<u>Latest Syllabus for Electronics Engineering</u>
Metallurgy	<u>Latest Syllabus for Metallurgy and Material Science</u>
Others	.....

**PART-III**

This is a discipline based **open book *depth examination*** comprising 40 multiple choice questions of one mark each (total marks 40) with the duration of 3 hours.

<b>Discipline</b>	<b>Description</b>
Civil	Area of practice e.g. structural, geotech, transportation, management etc.
Electrical	Area of practice e.g. electrical power, machines, instrumentation, control systems, management etc.
Mechanical	Area of practice e.g. machines design and material knowledge, HVAC and refrigeration knowledge, management etc.
Chemical	Area of practice e.g. plant designs, process control, safety, energy, environment, management etc.
Electronics	Area of practice e.g. circuits and networks, electronic communication, controls, management etc.
Others	.....

# **Part - 3**

## **Registration of Professional Engineering Bodies (PEBs)**

# Registration of Professional Engineering Bodies (PEBs)



NAME OF INSTITUTION/ ORGANIZATION

Year\_\_

## **3. Registration of Professional Engineering Bodies**

### **3.1 Conduct of Continuing Professional Development Activities**

Under Section 16 of SRO 1310(I)/2008, Professional Development of Engineers, the Governing Body shall ensure and manage the professional development of engineers in terms of its obligation under the Act. The Engineering Professional Development Committee (as per Section 15) shall administer the professional development activities according to specified criteria and guidelines laid down by the Council. Professional institutions and associations, CPD academies, engineering universities or colleges and private institutions, registered by the Council may impart CPD in coordination with the Committee. All these institutions, associations and other bodies shall be known as Professional Engineering Bodies (PEBs) in terms of Clause (xxiv) of Section 2 of the Act. The Council shall ensure that the responsibilities outsourced to these bodies are carried out in a fair, equitable and responsible manner without any profit motives. The Council retains the right to withdraw any outsourced responsibility from a registered PEB if the circumstances so require.

Registration of Professional Engineering Bodies (PEBs) shall form the basis of imparting effective CPD to Engineers of relevant field, thereby playing a pivotal role in mentoring the engineering profession.

The registration of PEBs will be based on assessment/review ascertaining the strengths and weaknesses of the organization in terms of standards, functioning, efficient management system, an effective self-assessment process, and trained and experienced manpower to achieve the purpose of professional development.

### **3.2 Principles**

- An initial detailed review progressively focusing on support rather than compliance;
- Focus on qualification, training and experience of people involved and procedures evolved for management and conduct of proceedings with emphasis on self-assessment; and
- Review based on demonstrated and appropriately documented material.

### **3.3 Criteria**

- Government/Semi-Government/Private Chartered Institutions;
- Autonomous and registered Professional Body in good standing;
- Shared objectives and compliance with PEC Act, Bye-laws (Section 16 of Bye-laws), regulations, etc.;
- Preference shall be given to those organizations which have all/most of the necessary infrastructure of their own; and
- Willing to be a registered member as a PEC Professional Engineering Body and pay a prescribed fee regularly to remain in good standing.

### 3.4 Procedure

- Receipt of Application for registration on prescribed form along with fee, if any;
- Analysis and clarifications on the application by PEC;
- If needed and approved by EPDC, visit to be conducted by Experts' Panel approved by EPDC and submission of Experts' Report to EPDC;
- Approval for registration in regular meetings of EPDC;
- Based on approval, formal certificate of registration be issued by EPDC;
- The whole process to be completed within three (03) months;
- Registration valid up to three (03) years;
- After expiry of registration period, the above registration procedure is to be repeated.

### 3.5 Guidelines for Registration of CPD Bodies with PEC

All the Professional Bodies interested to join for imparting CPD activities, may apply for registration with PEC while adhering to the provision of CPD Byelaws especially Section 16 and the defined criteria (Section 3.3). The professional bodies named **PEBs** would apply on the prescribed form along with fee and necessary documents to PEC. Any institute or body having more than one campus, would require a separate registration/ evaluation process. The major parameters to be evaluated might be included but not limited to the followings:

- i. Management of the Institute/ Organization
- ii. Mission and Objectives
- iii. Infrastructure and Physical Resources
- iv. Human Resources – Resource Persons and Staff
- v. Area(s) of Interest for CPD Activities
- vi. Major Achievements – Past CPD activities and experiences

All PEBs will provide yearly CPD schedule to PEC/ EPDC for information and record until 1<sup>st</sup> December of preceding year. If anything found unbalanced in the CPD schedule/ activities then PEC may ask for clarification(s). After which, The CPD activities will include but not limited to the activities defined in CPD Byelaws Section 15 ([www.pec.org.pk](http://www.pec.org.pk)). The final CPD activity schedule will be uploaded on PEC and respective PEB website.

The concerned PEB will send to PEC a verified list of the participants within two weeks of holding the CPD activity for verification of the CPD returns to be filed by the candidates. The format of CPD Yearly Calendar, CPD Returns of Participants, and CPD Returns of Resource Person(s)/ Event Organizer(s) are given in Appendix A, B and C, respectively. The format of CPD Certificate is enclosed as Appendix-D.

### 3.6 Fee Structure for PEB Registration and Engineer's CPD Returns

The following fee would be applicable to the PEBs for registration with PEC;

#### Registration Fee Structure

S.No	Type of Organization/ Institution	Fee (Rupees)
<b>At initial registration:</b>		
1	All public sector institutions/ universities/ academies (government, semi-govt, autonomous)	Nil
2	All private sector institutions/ universities/ academies/ associations	Nil
<b>Annual Renewal Fee:</b>		
1	All public sector institutions/ universities/ academies (government, semi-govt, autonomous)	N/ A
2	All private sector institutions/ universities/ academies/ associations	N/ A

However, all such registered bodies (public and private both) would pay to PEC 20% of fee charged on account of CPD imparted, against which the returns would be filed by the candidates.

The free structure for submission of CPD returns by engineers as well as by Professional Engineering Bodies (PEBs) is given below:

#### Fee Structure for CPD returns

S.#	Source of Return	Fee to PEC	Remarks
1	CPD imparted by PEC	Rs1000/- (half day) Rs2000/- (full day activity) per candidate	Total CPD fee
2	CPD imparted by registered PEBs (who charged fee)	20% fee share	To be received directly from PEB
3	CPD imparted by registered PEBs free of charge	Rs100/- per candidate per year	To be charged from engineer at the time of renewal or while submitting returns
4	CPD acquired from foreign recognized CPD providers/ entities	Rs1000/- per return plus minimum Rs2000/- verification fee (if exceeds then actual)	At the time of submission of CPD return by the engineer or at renewal stage
5	CPD Returns from unregistered PEBs/ organizations	Rs100/- per candidate per year	Only upto 31 <sup>st</sup> Dec 2012, otherwise such returns would not be accepted.



### **3.7 Proforma for Registration of CPD Bodies**

The proforma for registration of PEBs is given below, of which three copies are required to be submitted at the time of registration/ renewal along with prescribed fee.

### **3.8 Mechanism for recognition of CPD from Foreign Institutions/ Universities/ Professional Organizations**

The mechanism for recognition/ acceptance of CPD activities acquired by the PEs (Professional Engineers) and REs (Registered Engineers) from foreign institutions/ universities/ professional organizations is based on following criteria;

1. CPD bodies/ institutions/ universities recognized or registered by the equivalent registration/ licensing bodies like NCESS, Board of Engineers Malaysia (BEM), etc.
2. CPD activities acquired from the institutions/ universities having accredited engineering programs by equivalent accrediting bodies as FEANI, EC\_UK, ABET (Accreditation Board for Engineering and Technology), BEM or Washington Accord members.
3. CPD activities acquired from recognized educational institutions/ universities, from the relevant forum (HEC, Education Ministry, etc.)
4. Established and recognized Professional Bodies like American Society of Civil Engineers (ASCE), etc.
5. Established and recognized technical organizations
6. Distance learning will only be accepted based on defined criteria internationally acceptable.
7. For engineers acquiring CPD through above said system(s) will deposit Rs 2000/- (Rupees two thousand only) per CPD return plus verification fee, if applicable, as per actual.
8. The CPD activities would have the same CPD credit points and meaning as given in the CPD Byelaws 2008.

# **REGISTRATION FORM**

**(PEB-1)**

**FOR**

**PROFESSIONAL ENGINEERING BODIES (PEBs)**



**Engineering Professional Development Committee**

**Pakistan Engineering Council**

**[www.pec.org.pk](http://www.pec.org.pk)    [cpd@pec.org.pk](mailto:cpd@pec.org.pk)**

**REGISTRATION OF PROFESSIONAL ENGINEERING  
BODIES FOR CPD**

Date:.....

No: (For PEC only)

.....

(Self-Assessment Report to be filled by the institutions/ bodies/ academies)

S. No.	Parameters/ Attributes	By the Institution/ Organization
<b>1</b>	<b>Management of the Institute/ Organization:</b>	
	<b>1.1 Name of the Institution/ Organization</b>	
	<b>1.2 Govt./Autonomous/ Semi-autonomous/ Private</b>	
	<b>1.3 Registration (Chartered Institute, constituent part/campus, SECP, Company Ordinance etc.)</b>	
	<b>1.4 Location/ Constituency</b>	
	<b>1.5 Management and Operational Structure</b>	
	<b>1.6 Other Information</b>	
<b>2</b>	<b>Mission and Objectives of Organization:</b>	
	<b>2.1 Mission</b>	
	<b>2.2 Objectives</b>	
<b>3</b>	<b>Infrastructure and Resources:</b>	
	<b>3.1 Building (Owned, rented, lease etc.)</b>	
	<b>3.2 Office Space</b>	
	<b>3.3 Lecture Halls (Nos.):</b> - For atleast 30 participants - For > 30 and upto 100 participants	
	<b>3.4 Seminar/ Workshop Hall (Nos.) (more than 100 participants)</b>	
	<b>3.5 Availability of lecture requirements</b>	

	(multimedia, speaker, computers, internet, photocopying etc.)	
	<b>3.6 Financial Strength</b>	
	<b>3.6.1 Govt./ Trust Funds/ Donations</b>	
	<b>3.6.2 Other Sources of Fund Generation</b>	
<b>4</b>	<b>Human Resources – Resource Persons and Staff</b>	
	<b>4.1 Resource Persons</b>	
	<b>4.1.1 Permanent</b> (Name, qualification, experience, expert area)	
	<b>4.1.2 Visiting</b> (Name, qualification, experience, expert area)	
	<b>4.2 Allied/ Supporting Staff</b> (Name, qualification, responsibility)	
<b>5</b>	<b>Area(s) of Interest for CPD Activities</b>	
	<b>5.1 Area(s) of Interest (subjects &amp; fields):</b> 1. Civil 2. Mechanical 3. Electrical 4. ... 5. ....	
	<b>5.2 Yearly Calendar of CPD Activities with fee structure (Existing/ Projected)</b>	
<b>6</b>	<b>Major Achievements – Past CPD activities and experiences</b>	
<b>7</b>	<b>Mode of Dissemination</b>	
	<b>7.1 Website</b>	
	<b>7.2 Newspapers/ Newsletter/ Circular etc.</b>	

**Note: Please attach supporting documents/ additional sheets where necessary.**

Undertaking:

1. I declare on behalf of the institute/ organization, to abide by the terms and conditions of registration set forth in the Professional Development of Engineers Byelaws 2008, Guidelines Manual, and amendments made therein time to time.

2. To inform PEC (EPDC in case) the yearly calendar of CPD activities on 1<sup>st</sup> December of preceding year, and comply with the PEC's observation if anything found unbalanced in the CPD schedule.
3. To pay PEC 20% of fee charged on account of CPD imparted against which the returns would be filed by the candidates.
4. To pay initial registration and yearly renewal fee to PEC, if applicable.

**Name and Signature:**

**Head of Institution/ Organization**

## EVALUATION BY EPDC THROUGH CPD SECRETARIAT

<b>Stage 1:</b>	<b>Initial; scrutiny by CPD Secretariat:</b>
<b>Stage 2:</b>	<b>Consideration by CPD Secretariat Head for submission to EPDC either for direct approval or referring for visit by the experts or referring back to the institute to meet observations:</b>  <b>Decision of EPDC:</b> <ul style="list-style-type: none"><li>- <b>Approved</b></li><li>- <b>For experts' visit</b></li><li>- <b>Referring back to the institute</b></li></ul>
<b>Stage 3:</b>	<b>Report by the Experts:</b>
<b>Stage 4:</b>	<b>Resubmission of the case through Secretariat to EPDC for review/ final decision:</b>  <b>Decision of EPDC:</b> <ul style="list-style-type: none"><li>- <b>Approved</b></li><li>- <b>Declined</b></li></ul>

**Part - 4**

**Engineering Practice Examination**  
**(EPE)**

## **4. ENGINEERING PRACTICE EXAMINATION**

### **4.1 Introduction**

For assessment of engineering competence, knowledge and skills of an applicant engineer, the Committee shall hold an examination which may be arranged and conducted through local or foreign services hired or availed for the purpose. The EPE is optional for a registered engineer but is an essential part of assessment for the title of professional engineer.

When a registered engineer has attained a minimum of five years of practical experience in relevant field of engineering from a recognized engineering organization or institution or service and has earned requisite credit points, he shall become eligible to apply for EPE

### **4.2 EPE Mechanism**

In this regard, a system has been designed for conducting Engineering Practice Examination to cater for 6,000 to 8,000 engineers annually with provision for future expansion. The mechanism is as under.

- Widely circulated schedule of EPE twice a year or in accordance with the frequency revised from time to time through newspapers/ website for submission of application forms along with fee by the Registered Engineers who fulfill the pre-requisites and are interested for the title of “PE”.
- Verification of pre-requisites and record by CPD Secretariat to finalize the list and issuing Roll Number/ Code, indicating Examination Centre accordingly (via post and email). The roll number/ code will be used during the examination. A valid CNIC would be needed.
- EPDC will be responsible for administering examination at Islamabad, Lahore, Karachi, Quetta, Peshawar, Multan, Sukkur and Hyderabad. The centres will be based mainly at Public Sector Engineering Universities/Institutes at a location where reasonable cluster of internet connected computers (about 250 -300) could be available. Security of all the centres shall be ensured.
- All three parts of the examination shall be held on the same day with twenty minutes break between each part.
- The EPDC through Expert Curriculum Committees will continuously review the curriculum obtain/compile MCQ-based examination papers prepared for all engineering disciplines.
- EPDC will appoint Examiners (from among Governing Body) for overall monitoring of the EPE proceedings in each examination centre, who will be assisted by the concerned Deputy Registrars of Branch/ Liaison Offices. The concerned institute will provide all support in this regard for which necessary MoUs will be made.



### 4.3 Examination Process

The EPDC while remaining at PEC HQs will liaise with all the examination centres while the computers at each centre will be connected through WAN with main server(s) located at PEC Headquarters. All the computers will be given access through given Roll Number/ Code. After finishing of each part, the result for each candidate will be generated through computer based scoring appearing on respective computers and at the same time the result of all the candidates on the Examiner's Computer. The result will also inform each candidate whether to appear for next part or not. In this manner, the test for all the parts will be held. However, the result for the final part will not be available to the candidates. The result for final part will be processed later by EPDC on receiving attendance sheets from each centre and result will be announced within one week of examination through newspapers, posting on PEC website and communication to the passing candidates.

In case, EPDC/ PEC is not able to set the computerized system for EPE upto July 2010, then operational procedure for paper-based EPE is defined below;

- i. The examination papers along with list of candidates, attendance sheets, return envelopes and necessary stationery material will be handed over to the concerned PEC Officer at PEC HQ a day before examination, who would take it to the examination centre.
- ii. On the day of examination at each centre, the Team will comprise of one local Governing Body Member, concerned PEC Officers and one staff (Executive or Jr. Executive level), and VU Campus Incharge, besides supporting staff from the collaborating university (Virtual University in this case).
- iii. The entry of the candidates will start atleast 30 minutes before the scheduled time i.e. 0930 hours. The entry of each candidate will be subject to possession of original Roll Number slip issued by PEC, original valid CNIC and original PEC Registration Card. Each entering candidate will sign the attendance sheet. The same will be ensured for Parts II and III.
- iv. At 0930 hours, the doors of the examination hall will be closed.
- v. The envelope of examination paper for the Part-I will be signed by Governing Body Member, PEC Official and Incharge from Virtual University. PEC Official in the presence of the Governing Body Member, will open the envelope (same procedure for Parts II and III). This should be done in such a way that the papers are distributed up to 0930 hours.
- vi. The time for Part-I will be over at 1130 hours, no candidate be allowed to leave before the completion time of each Part. The paper collection (paper along with respective answer sheet) will be done before the candidates are allowed to leave the hall for a 30 minutes break.
- vii. The Part-II will start at 1200 hours and be continued until 1400 hours.
- viii. Part-III will start at 1430 hours and be continued until 1730 hours.
- ix. The Examination Team will seal the answer sheets clipped with respective paper at the end of each Part of the examination along with attendance sheet. At the end of the examination, all three sealed envelopes and the blank answer sheets will be packed

and sealed in one envelope. The same would be returned to PEC Headquarters on the same day in person by the concerned PEC Officer.

- x. The entire examination process will be monitored by EPDC from the PEC Headquarter.

#### **4.4 Applying Procedure for EPE**

When a registered engineer has attained a minimum of five years of practical experience in relevant field of engineering from a recognized engineering organization or institution or service and has earned requisite credit points, he shall become eligible to apply for EPE on prescribed form given in Appendix-E of this Manual.

The format of the EPE shall be as under, namely:-

- (a) the examination shall comprise of three Parts. Part-1 (2 hours) shall be common to all and Part-II (2 hours) and Part-III (3 hours) shall be discipline-based breadth and depth examinations respectively. Part-II and Part-III shall be based on open book method. Syllabus of each part of EPE, duly amended from time to time, shall be finalized by the Committee. Basic parameters of the syllabi of each Part are given in CPD Byelaws-2008 given in this Manual) and EPE Curricula for PEC registered engineering disciplines are available on PEC website ([www.pec.org.pk](http://www.pec.org.pk)).
- (b) qualifying marks for each Part shall be sixty *per cent*. Qualifying all three Parts is mandatory;
- (c) the Examination shall be held twice a year and results shall be published through press and the Council's website; and
- (d) an application for EPE shall be supported by two professional engineers with minimum fifteen years of professional standing or a professional engineer authorized by the Council. A professional engineer supporting a prospective candidate shall send an independent report to the Committee on Proforma attached with the application form at Annex-B of Part-2 of this Manual.

The Council shall charge such fees as may be specified by it from time to time for CPD and EPE. The fee for EPE is Rs5000/- per candidate.

#### **4.5 Application Form for EPE**

The application form for Engineering Practice examination (EPE) is given in Appendix-E of this Manual.

#### **4.6 Instructions/Guidelines to the Candidate**

The following instructions/guidelines are mandatory for each candidate appearing in Engineering Practice Examination (EPE).

1. No candidate is allowed to sit in the exam without the roll no slip, original CNIC, original PEC registration card.
2. The exam will start at 0930 hours and the candidate should report at the center atleast thirty minutes before start of exam.
3. No candidate will be allowed to the examination hall once the exam is started.
4. Programmable calculator, laptop, mobile phone, iPod, CD player, and any storage device/ electronic gadget are not allowed in examination hall. Only simple calculator is allowed.
5. The exam will comprise of three parts, and held on the same day viz Part-I (2-hours), Part-II (2 hours) and Part-III (3 hours), with 30 minutes break.
6. Passing marks for each part is 60%, and passing all three parts is mandatory to qualify EPE.
7. Exam will be based on Multiple Choice Questions (MCQs).
8. The Part-II and Part-III of exam will be open book; only books, bound copies will be allowed. No loose paper/notes /handouts will be permissible.
9. The final result will be communicated through post, email, and PEC website.
10. No candidate shall indulge to influence the examination process as well as the examination staff, and responsible(s) will be disqualified.
11. No candidate is allowed to indulge in any Law and Order situation to affect the exam process.

#### **4.7 Code of Ethics for EPE Curriculum Experts/ Examiners**

The Code of Ethics to be observed by the EPE Curriculum Experts/ Examiners, is placed at Appendix-F.

# **Part - 5**

## **Functions of Examination Section (EPE)**

## **5. FUNCTIONS OF EXAMINATION SECTION**

### **5.1 Compilation of CPD/EPE Record**

The CPD Department will comprise of two sections viz. i) CPD Section, and ii) EPE Section, under the overall directions of EPDC through the Head of CPD Department. The CPD Secretariat will perform all the functions defined in the CPD Byelaws 2008. The maintenance of CPD record, returns from the engineers, PEBs registration/ renewal and their CPD schedule, consolidation and verifications etc., will be managed by the CPD Section.

### **5.2 Examination Records Branch / Cell**

The Engineering Practice Examination (EPE) will be managed by the EPE Section of CPD Department at PEC Headquarters, Islamabad. This Section will be responsible under the overall directions of the EPDC through the Head of CPD Department, to announce, receiving applications, scrutiny, record compilation, arranging examination and maintaining results till approval and endorsement to the PEC Registration Department.

### **5.3 Review Status of Existing Professional Engineers, Complaints and Disciplinary Matters**

The EDPC will regularly take up and review matters relating to the status of existing Registered Engineers and Professional Engineers, complaints and disciplinary issues as defined under the CDP Byelaws in vogue.

### **5.4 Filing of CPD Returns**

The filing of CPD returns by the Registered Engineer and Professional Engineer will be done as prescribed in Section 17 of CPD Byelaws.

### **5.5 Audit of CPD Activities and Returns**

The audit of CPD activities would be a compulsory part for quality control as defined in Section 19 of CPD Byelaws.

### **5.6 Notification/ Registration as Professional Engineers**

The notification of EPE result will be announced through newspapers, PEC website and by post as prescribed in Section 23(c) of CPD Byelaws.

### **5.7 Examination Kits and Study Material**

The Council through CPD Department would prepare examination kits and study material for the candidates downloadable from PEC website or in hard copy against nominal charges.

## Format of CPD Yearly Calendar by PEBs

CPD Activities Calendar for the year 2011								
<b>PEB Name:</b>								
<b>PEB Reg. #</b>								
<b>Name of PEB Coordinator:</b>								
Sr. #	CPD Title	CPD Category - Type	Location	Dates	Collaboration	Recourse Person	CPD Credit Points	Fee (Rs)
1	Leadership for Engineers and Technical Managers	C - Short Course	UET Lahore	31 <sup>st</sup> January 2011	IB&M and PEC	Engr Dr Ali Sajid, TI	1	2000
2	Managing Mines for Enhanced Safety and Productivity	C - Lecture	PEC HQ Islamabad	2 <sup>nd</sup> March 2011	Institute of Mining Engineers Pakistan and PEC	Engr Muhammad Khalid Pervez	0.5	1000
3	International Conference on Alternate Energy	C - Conference	PEC HQ Islamabad	11 - 12 April 2011	MCE (NUST) and PEC	Dr Manzoor Hussain	0.5	3000
4	High Rise Buildings design and regulations	C - Short Course	NED Karachi	23 - 25 May 2011	UET-NED and PEC	Engr. Dr. Sarosh H. Lodi,	1	4000
5	Workshop on Cost and Contracts	C - Workshop	PEC HQ Islamabad	20 <sup>th</sup> June 2011	NUST and PEC	Prof. Dr. Rafiq M. Ch. Engr. Mumtaz Hussain	1	5000
6	Construction Management	C - Short Course	NED Karachi	22 - 23 July 2011	UET-NED and PEC	Dr Rizwan UI Haq Engr. Dr. Sarosh H.	1	3000

## Format of CPD Returns-1 by PEBs

<b>Course/ CPD title:</b>								
<b>PEB Name:</b>								
<b>PEB Reg #:</b>								
<b>CPD Category</b>	<b>CPD Activity</b>	<b>Course Code</b>	<b>Date</b>	<b>Location</b>	<b>Duration</b>	<b>Credit Points</b>	<b>Total No. of Participants</b>	<b>Fee (Rs)</b>
C	Workshop	MEC-4	15 <sup>th</sup> April 2011	PEC HQ	One Day	1	50	
<b>List Of Participants</b>								
<b>Sr. No</b>	<b>PEC Reg. No</b>	<b>Name (as per PEC Record)</b>						
1	Civil/22912	Muhammad Amin						
2	Civil/22031	Waqas Hayat						
.								
.								
.								
50								

## Format of CPD Returns-2 by PEBs

<b>Course/ CPD title:</b>								
<b>PEB Name:</b>								
<b>PEB Reg #:</b>								
<b>CPD Category</b>	<b>CPD Activity</b>	<b>Course Code</b>	<b>Date</b>	<b>Location</b>	<b>Duration</b>	<b>Credit Points</b>	<b>Total No. of Participant</b>	<b>Fee (Rs)</b>
C	Workshop	MEC-4	15 <sup>th</sup> April 2011	PEC HQ	One Day	1	50	
<b>Particulars of CPD Organizers</b>								
<b>Sr. No</b>	<b>PEC Reg. No.</b>	<b>Coordinator/ Resource Person</b>	<b>Name</b>	<b>Affiliation/ Organization</b>	<b>CPD Credit Points</b>			
1	Civil/22912	Course/ Event Coordinator	Engr Dr Sattar Shakir	UET Lahore	1			
2	Civil/22031	Resource Person-1	Engr Dr Ali Sajid	UET Lahore	1.5			
3	.	Resource Person-2						
.	.							
.	.							



## Format of CPD Certificate



**Continuing Professional Development Programme**  
(under PEB License No.: P-UETLHR-50-xx)

This certificate is awarded to

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*for attending one day short course on*

**ENGINEERING PROCUREMENT AND CONTRACTS**  
(One CPD Credit Points)

*held on February 11, 2011*

at University of Engineering and Technology, Lahore

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Course Coordinator

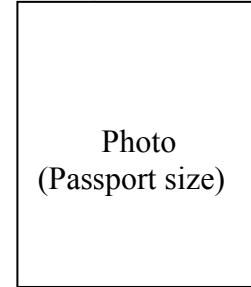
PEB Coordinator

Organized by: University of Engineering and Technology, Lahore



PAKISTAN ENGINEERING COUNCIL

**APPLICATION FORM FOR  
ENGINEERING PRACTICE EXAMINATION (EPE)**



**1. PERSONAL INFORMATION**

Name: \_\_\_\_\_

Father's Name: \_\_\_\_\_

PEC Registration No: \_\_\_\_\_ Discipline: \_\_\_\_\_

Gender: \_\_\_\_\_ Domicile: \_\_\_\_\_ Nationality: \_\_\_\_\_

Date of Birth: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(Day) (Month) (Year)

Present Address: \_\_\_\_\_

Permanent Address: \_\_\_\_\_

Phone Number (Line No): \_\_\_\_\_ Mobile No: \_\_\_\_\_

E-mail: \_\_\_\_\_

**2. QUALIFICATION**

2.	Qualifications	Name of University/ College/ Institute/Board	Year of Passing	Obtained Marks /Total Marks	%age	Certificate/Degree with discipline
2.1	F.Sc or Equivalent					
2.2	B.E. /B.Sc. Engg. Degree or					

	Equivalent					
2.3	Post-graduate Diploma/Degree or Equivalent					
2.4	Doctorate (Ph. D) or Equivalent					

2.5 Any Other non-engineering qualification (Post-graduation) obtained:

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**Note:** In case of qualification in more than one engineering discipline, indicate field of specialization.

**3. EMPLOYMENT STATUS**

Sr. No.	Name of Company/ Organization	Status (Govt./Semi-Govt/ Autonomous/Private)	Designation	Experience From-To	Experience Years/ Months
3.1					
3.2					
3.3					
3.4					
3.5					
3.6					
3.7					
3.8					

4. **CPD SCORE ACCUMULATED SINCE 10<sup>TH</sup> JULY 2010**  
(enclose attested documentary evidence)

Sr. #	Category	Sub-Category (As per Annex-A of CPD Byelaws)	Professional Engineering Body	Credit Hours Claimed	Credit points Claimed	Remarks
4.1	Formal Education (Higher Education duly recognized by PEC/HEC)					
4.2	Work Based Learning (Work Experience, Engineering related work including Management)					
4.3	Developmental Activities (Conferences, Seminars, Workshops, Lectures, memberships etc.)					
4.4	Individual Activities (Symposium Panelist, Authoring of Book, recognized social work etc.)					
<b>Total</b>						

10. **ANY OTHER ACHIEVEMENT**

---

**Note:** Attach additional sheets if required.

11. **PROFESSIONAL AREA OF PRACTICE/SPECIALIZATION APPLIED FOR TITLE OF PROFESSIONAL ENGINEER (PE)**

(to be selected from enclosed Appendix-1 based on qualification, professional experience, and CPD acquired by the candidate)

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12. **EXAMINATION CENTRES** (For detail visit PEC website)

Sr. No.	Preferred locations in order of priority (select any three) (Islamabad,Rawalpindi,Karachi,Lahore,Quetta,Peshawar,Sukkur,Multan)
7.1	
7.2	
7.3	

13. **FEE**

Prescribed Fee of Rs...**5000**/----for EPE has been paid in Bank .....

Branch.....Vide Challan No/Draft No .....Dated.....in

favor of “Pakistan Engineering Council Islamabad”

14. **DECLARATION**

- I wish to take the EPE for (spring/fall) year 20.....as prescribed by PEC in discipline as mentioned in the application form.
- I undertake to inform the EPDC/PEC of any change in my postal address and profession.
- I have no objection against my EPE process being stopped, should there be inaccuracy in the submitted information.
- I also undertake to abide by the PEC Act, Bye-Laws, relevant rules and Codes of Ethics and Conduct, prescribed for the members of the Council.
- I certify that the above particulars mentioned by me are true and correct.

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

Signature of the Engineer: \_\_\_\_\_

## 10. SPONSORS

From Personal knowledge of the applicant and in consideration of his/her qualifications as stated in the form, we recommend him/her as being in every way a fit and proper person to be certified as Professional Engineer.

### 10.1 Sponsor-1

Name: \_\_\_\_\_ PEC Registration Number: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

Designation: \_\_\_\_\_ Status: \_\_\_\_\_

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

Date: \_\_\_\_\_ Official Stamp: \_\_\_\_\_

### 10.2 Sponsor-2

Name: \_\_\_\_\_ PEC Registration Number: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

Designation: \_\_\_\_\_ Status: \_\_\_\_\_

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

Date: \_\_\_\_\_ Official Stamp: \_\_\_\_\_

**Note:** An application shall be supported or sponsored by two professional engineers with fifteen years of experience.

#### **Instructions:**

Please ensure provision of following documents with the application form:

1. Attested copy of valid PEC registration certificate
2. Attested copies of experience certificates
3. Supporting documents of CPD activities
4. Attested copy of NIC and Domicile
5. Two passport size photographs (duly attested on the back side)
6. EPE fee paid receipt

#### **Applications must be sent to:**

Additional Registrar CPD  
Pakistan Engineering Council,  
Ataturk Avenue, Sector G-5/2,  
Islamabad.

**To be filled by each Sponsor**

**(Confidential when completed)**

**To be filled by each sponsor and send separately to EPDC/PEC in a sealed envelope;**

Report on Mr/Miss \_\_\_\_\_ S/O,D/O \_\_\_\_\_

Discipline: \_\_\_\_\_ PEC Registration No: \_\_\_\_\_

5. How long have you known the applicant ..... Years

6. In what capacity.       Employer    Advisor    Sr. Colleague

Colleague    Friend    Client

7. Do you recommend the applicant for certification as Professional Engineer.

Yes       No

8. If yes please give your own impression of the candidate and why you consider him or her a fit person to be certified as Professional Engineer (PE) in around 50 words.

Signature: \_\_\_\_\_ Name of Sponsor: \_\_\_\_\_

Discipline: \_\_\_\_\_ Experience: \_\_\_\_\_

PEC Registration No: \_\_\_\_\_

Correspondence Address: \_\_\_\_\_

Contact No: \_\_\_\_\_ Email id: \_\_\_\_\_

Send to:-

Additional Registrar CPD, Pakistan Engineering Council,  
Ataturk Avenue (East), G-5/2, Islamabad

**(FOR OFFICE USE ONLY)**

**A. Accounts Section**

Mode: 

Cash	Cheque	DD
------	--------	----

Received Rs. \_\_\_\_\_  
Receipt No. \_\_\_\_\_ Chq/DD No. \_\_\_\_\_

*(Signature of Accounts Clerk)*

*(Accounts Executive)*

**B. CPD Wing**

1. Discipline: \_\_\_\_\_ 2. PEC Reg No: \_\_\_\_\_  
3. Renewal Upto: \_\_\_\_\_ 4. Registration Year: \_\_\_\_\_  
5. Experience: \_\_\_\_\_ 6. CPD Credit Points: \_\_\_\_\_  
7. Recommendations of CPD Wing:

(Eligible / Not Eligible)

**C. EPE Wing**

8. EPE Roll No: \_\_\_\_\_ 9. EPE Centre: \_\_\_\_\_

10. EPE Grading:

Sections	Marks Obtained	Total Marks	Percentage	Remarks
Part-I				
Part-II				
Part-III				
Total				

11. For PE Title

(Selected / Not Selected)

Discipline: \_\_\_\_\_  
Registration Number: \_\_\_\_\_



## Appendix-1

### Professional Areas of Practice/ Specialization for the title of Professional Engineer (PE)

(Based on academic qualifications, professional experience, and CPD acquired by the candidate)

S.#	PEC Registered Engineering Disciplines	Professional Areas of Practice/ Specialization for title of PE (select only one)
1	<b>Electrical Engineering and Allied Disciplines</b> (Electrical/ Electronics/ Industrial Electronics/ Telecommunication/ Avionics/ Mechatronics/ Biomedical/ Computer/ Engineering Sciences)	<ol style="list-style-type: none"> <li>1. Electric Power</li> <li>2. Electronic Engineering</li> <li>3. Industrial Electronics</li> <li>4. Telecommunication Engineering</li> <li>5. Avionics Engineering</li> <li>6. Mechatronics Engineering</li> <li>7. Biomedical Engineering</li> <li>8. Computer Engineering</li> </ol>
2	<b>Civil Engineering and Allied Disciplines</b> (Civil/ Transportation/ Urban/ Environment/ Building & Architecture)	<ol style="list-style-type: none"> <li>1. Structures</li> <li>2. Transportation</li> <li>3. Geotechnical</li> <li>4. Construction Management</li> <li>5. Water Resources</li> <li>6. Environmental Engineering</li> <li>7. Urban Engineering</li> <li>8. Building and Architectural Engineering</li> </ol>
3	<b>Mechanical Engineering and Allied Disciplines</b> (Mechanical/ Industrial and Manufacturing/ Aeronautical Engineering-Aerospace only)	<ol style="list-style-type: none"> <li>1. Thermo-fluids Engineering</li> <li>2. Manufacturing Engineering</li> <li>3. Design Engineering</li> <li>4. Control Engineering</li> <li>5. Aerospace Engineering</li> </ol>
4	<b>Metallurgy and Materials Engineering</b> (Metallurgical Engineering/ Metallurgy and Materials Engineering )	<ol style="list-style-type: none"> <li>1. Metallurgical Engineering</li> <li>2. Foundry Engineering</li> <li>3. Advanced Materials</li> <li>4. Surface Engineering</li> <li>5. Nanotechnology</li> </ol>
5	<b>Chemical &amp; Polymer Engineering</b>	<ol style="list-style-type: none"> <li>1. Process Synthesis, design and</li> </ol>

	(Chemical Engineering/ Polymer Engineering)	<ul style="list-style-type: none"> <li>Optimization</li> <li>2. Operation and Production Engineering</li> <li>3. Utilities and Services Engineering</li> <li>4. Environment and Process Safety Engineering</li> <li>5. Instrumentation and Control Engineering</li> <li>6. Thermal Hydraulics</li> <li>7. Polymer Engineering</li> <li>8. Biochemical Engineering</li> <li>9. Energy Engineering</li> <li>10. Separation Process Engineering</li> <li>11. Corrosion Engineering</li> </ul>
6	<b>Mining Engineering</b>	<ul style="list-style-type: none"> <li>1. Query/ Open Pit Development and Operation</li> <li>2. Underground Mining Operation and Development</li> <li>3. Mine Rescue and Safety Engineering</li> <li>4. Mine Management and Regulatory Regime</li> </ul>
7	<b>Agricultural Engineering</b>	<ul style="list-style-type: none"> <li>1. Environmental Engineering</li> <li>2. Machine Systems Engineering</li> <li>3. Irrigation and Drainage Engineering</li> <li>4. Water Resources Development and Management</li> <li>5. Process Engineering</li> <li>6. Energy in Agriculture</li> </ul>
8	<b>Textile Engineering</b>	<ul style="list-style-type: none"> <li>1. Yarn Manufacturing</li> <li>2. Fabric Manufacturing</li> <li>3. Textile Processing</li> <li>4. Garment Manufacturing</li> </ul>
9	<b>Petroleum and Gas Engineering</b>	<ul style="list-style-type: none"> <li>1. Drilling Engineering</li> <li>2. Reservoir Engineering</li> <li>3. Production Engineering</li> </ul>



# PAKISTAN ENGINEERING COUNCIL

## The Code of Ethics for Members PEC EPE Curriculum Committees/ Experts (Approved by the EPDC)

The prominent Engineers who are nominated/ selected as member of EPE (Engineering Practice Examination) Curriculum Committees, as Sub-Committees of Engineering Professional Development Committee (EPDC) of PEC must conduct in accordance with the following Code of Ethics.

### 1. Confidentiality of Information

Individuals / members of the EPE Curriculum Committees must not transmit nor reveal the contents of documents and information during the Curriculum Development and examination process and the respective decisions of EPDC to any third party other than the EPDC or its Convener/Chair and/or to the PEC Governing Body, including authorized Secretariat involved in the process of EPE/policy making, if deemed necessary. When it is uncertain whether a material is regarded as confidential or not, it must be confirmed with PEC CPD Secretariat or the Convener EPDC.

### 2. Assignment of EPE Curriculum Committee Members and Avoidance of Conflict of Interest

Individuals /members shall intimate any possibility of conflict of interest and disclose any real or potential possibility that may cause any conflict of interest during the entire proceedings of EPE meetings and process.

### 3. Fair Examination/Evaluation and Judgment in all EPE Proceedings

Proceed with fair and transparent examination/evaluation of all such matters of EPE to make honest/ fair professional judgments, taking the position to improve the quality of engineering education being imparted and the engineering profession in the country and to provide necessary policies/ guidelines, particularly in conjunction with the EPE and in general to national scale.

### 4. Submission/Record of Confidential Documents

All confidential documents must be kept in safe custody for a settled time/period and be disposed off after confirmation of receipt of hard and soft material to the CPD Secretariat through given mode of communication from time to time.

### DECLARATION STATEMENT

I have received and read "the Code of Ethics for Members of PEC EPE Curriculum Committees/Experts" before discharging my duties as Member/ Expert. I understand the contents and follow these codes to the best of understanding and knowledge.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Affiliation

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

(Dully signed by each individual member of the PEC EPE Curriculum Committees/Experts, including Secretary EPDC on behalf of the PEC Secretariat)