

CPD Activities and Credit Points

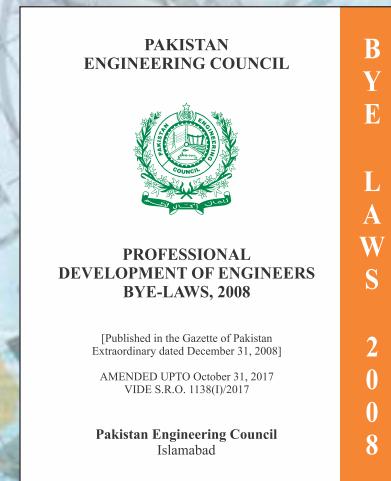
| Category | Applicable CPD Program | Duration Credit Hr | Credit Points | Remarks |
|--|--|--|---|---|
| Category-a Formal Education (Higher Education recognized by PEC/HEC) Limit = 4 credit points/year | a. Post Graduate Diploma (PGD) b. Award of Post Graduate Degree (Engg, IT, Finance, Management, Economics, Law, etc.) c. Award of Doctorate (Ph.D) in Engg | | 2 4 4 6 12 | (6 – 9 months) (9 – 12 months) (course work only) (course work plus research) |
| Category-b Work Based Activities | Work Experience (Engineering related work including relevant aspects of Management) | 400 | 1 | Limit = 2 Credit points/year |
| Category-c* Development Activities Limit for category-c = 2 credit points per year | 1. Membership of a recognized professional association/body 2. Participation in Training & Development programmes 3. Participation in Conference 4. Participation in Seminar 5. Participation in Lectures 6. Participation in Workshop 7. Refresher Course/short course | 0 0 0 0 02 02 One Day One Day | 1 2 1 0.5 0.5 1 1 | National International Limit = 2 memberships/year |
| Category-d* Individual Activities | 1. Invited lecturer 2. Symposium panellist 3. Writing and publishing a research article in Journals / Technical report 4. Writing Conference paper 5. Authoring a Book 6. Part of activities such as emergency / recognized social work 7. Participation in statutory, Technical / non-technical committees 8. Managing Technical event | | 1.5 0.5 1.5 3.0 0.5 1.5 5.0 1.0 1.0 1.0 2.0 | Lectures exclude routine teaching National Publication International Publication National International Approved by a body Professional contribution Active participation National International |

for further details please visit website: www.pec.org.pk

Pakistan Engineering Council



Continuing Professional Development of Engineers



BYE LAWS 2008

Engineering Professional Development Committee (EPDC)

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Purpose and Background

Pakistan Engineering Council (PEC) under PEC Act and CPD-Byelaws, is earnestly working for the professional growth and skill enhancement of ever growing engineering community. Realizing the importance of international recognition of engineering qualification and cross border mobility of our engineering graduates, and to provide them access to international job market, PEC has taken several initiatives. As a landmark achievement, PEC has become the full signatory of "**Washington Accord**" in 2017, followed by full licensing authority for **International Professional Engineer** by IPEA in June 2018.

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 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.

PEC framework for Professional Development of Engineers (Byelaws-2008) stipulates continuing professional development needs of a "Registered Engineer (RE)" and "Professional Engineer (PE)" in Pakistan. The CPD activities and Engineering Practice Examination (EPE), are two distinct parts of professional growth and thereby assessment to get the title of "PE". The CPD-Byelaws have become effective from 10th July 2010 onwards.

Parameters of CPD Framework

- a. Initially a graduate engineer from PEC accredited engineering qualification shall be registered as "Registered Engineer (RE)";
- b. for newly "Registered Engineer (RE)", first year after graduation shall be a grace period and CPD will be applicable from second year onwards;
- c. a "RE" after initial registration shall remain in practice of profession for a period of 5-years in a recognized organization/ institution/service;
- d. a "RE" shall have to earn 17 CPD credit points in the first 5-years; and 05 credit points per year thereafter for renewal of registration w.e.f July 2010 onwards;
- e. a "RE" is required to appear for EPE (Engineering Practice Examination) after 5-years of initial registration and acquiring requisite 17 CPD credit points to get title of "Professional Engineer (PE)";
- f. a "RE" registered after April 2005 may appear for EPE from January 2011 onwards after having five-year experience and 17 CPD points w.e.f July 2010 onwards;
- g. a PE already registered with the Council are not required to appear in EPE, but require to obtain 03 CPD credit points per year for renewal of registration from July 2010 onwards;
- h. an engineer registered as PE by the IPEA (International Professional Engineering Alliance) shall be recognized by Council as PE.

Conduct of CPD Activities

Under CPD Framework, engineers (both PEs and REs) are required to learn innovative and soft skills to be more effective in playing productive role towards their career as well as in the nation building. With these objectives, CPD framework sets parameters through number of developmental activities such as short courses, trainings, workshops, higher qualification, research publications, professional memberships, etc. Under New Vision of CPD, specialized job-oriented and global certification courses are being introduced to enhance employability and on-job performance. For wider coverage and remote outreach, webinars and video-

conferencing facilities have also been integrated. This Vision envisages 100,000 jobs for fresh engineers in next 5-years not only in national but also in international job-markets.

To facilitate the engineers in fulfilling their CPD requirements, PEC regularly holds CPD courses and trainings all over the country through its Headquarter and Regional/ Branch Offices; the list is available on PEC website (www.pec.org.pk) and also advertised through newspapers. Similarly, PEC has also registered large number of PEBs (universities, technical organizations and academies) to impart CPD activities to the engineers on behalf of PEC to fulfil the needs of our engineers. The list is also available on PEC website along with their CPD calendar. These PEBs are regulated by PEC under well-defined registration and monitoring framework.

Recording CPD Activities by the Engineers

1. Unless exempted in terms of CPD-byelaw 18, all REs and PEs shall, record their CPD activities with PEC in the following manner:
 - a. either manually by posting an authenticated copy of certificate from a professional engineering body to PEC or electronically in a password-protected domain, through Council's website; and
 - b. registered persons may record individual CPD activities with PEC as they occur, within sixty days after completion of each activity.
2. When recording CPD activities, any registered person in more than one professional categories, shall inform PEC regarding category of registration which is most appropriate to his area of practice.
3. False claims shall be treated as serious breach of ethics and invite disciplinary actions under the Act.

Engineering Practice Examination (EPE)

For assessment of engineering competence, knowledge and skills of an applicant engineer, PEC holds an examination namely Engineering Practice Examination (EPE). The EPE is optional for a Registered Engineer (RE) but is an essential part of assessment for the title of Professional Engineer (PE). PE has privilege over RE in terms of having authority for independently signing design.

An RE after attaining a minimum of 5-years of on-job practical experience and having earned 17 CPD credit points, shall be eligible to apply for EPE. Through widely circulated schedule in newspapers/website, EPE is held twice a year.

EPE Format

- a. The EPE is comprised of following two parts which will be held in one-day sitting as below;
Part-I (2 hours): common to all disciplines (40MCQs)
Part-II (3 hours): discipline-based breadth and depth examination - open book (60 MCQs)
- b. Syllabus of each part of EPE is available on PEC website for all engineering disciplines along with sample MCQs.
- c. Qualifying both the Parts is mandatory with 60% in each.
- d. Candidates not qualifying in any one part may reappear in the same part in the next three consecutive exams instead of reappearing in the entire examination.