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

* Limit = 2 credit points per year
Purpose and Background

Pakistan Engineering Council (PEC) is deeply motivated for the development of engineering profession in the country. 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 signatory of "Washington Accord" in June 2010. The process for membership of "Engineers Mobility Forum (EMF)" is also in progress.

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.

Parameters of CPD Framework

(a) 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 five years in a recognized organization/institution/service;  
(d) a “RE” shall have to earn seventeen credit points in the first five years; and five credit points per year thereafter for renewal of registration;  
(e) a “RE” is required to appear for EPE (Engineering Practice Examination) after five years of initial registration and acquiring seventeen requisite credit points to get title of “Professional Engineer (PE)”;  
(f) a “RE” registered after 2005 may appear for EPE from January 2011 onwards after having five year experience and CPD points from effective date of 10th July 2010 onwards;  
(g) a PE already registered with the Council are not required to appear in EPE, but required to obtain three credit points per year for registration renewal from July 2010;  
(h) an engineer registered as PE by the Engineers Mobility Forum (EMF) shall be recognized by Council as PE.

Conduct of CPD Activities

The professional development activities (CPD) may be imparted by Professional institutions and associations, CPD academies, engineering universities or colleges and private institutions, registered by the Council. All these institutions, associations and other bodies shall be known as Professional Engineering Bodies (PEBs) in terms of Clause (xxiv) of section responsibilities outsourced to these bodies are carried out in a fair and equitable manner without any profit motives. The Council retains the right to withdraw any outsourced responsibility from a registered PEB if the circumstances so require.

The conduct and recording of CPD activities (see details overleaf) would be as follows:
1. PEC shall announce the list of recognized CPD imparting bodies/institutions through its website and newspapers.
2. Unless exempted in terms of CPD bylaw 18, all registered and professional engineers 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.
3. When recording CPD activities under clause (2) above, 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.
4. 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, the PEC shall hold Engineering Practice Examination (EPE) which will be arranged and conducted on the centres announced by the Council (Islamabad, Rawalpindi, Lahore, Karachi, Quetta, Peshawar, Sukkur, Hyderabad, and ). The EPE is optional for a Registered Engineer(RE) but is an essential part of assessment to get the title of Professional Engineer (PE).

The EPE is comprised of following three parts which will be held in one day sitting with 20-minutes break each;
   Part-I (2 hours): common to all disciplines (30 multiple choice questions)  
   Part-II (2 hours): discipline based breath examination – open book (30 multiple choice questions)  
   Part-III (3 hours): discipline based depth examinations – open book (40 multiple choice questions)  
   ➢ The curriculum, course material and study kits shall be available on request or downloadable from PEC website.  
   ➢ The 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;  
   ➢ 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; and  
   ➢ The Examination shall be held twice a year and results shall be published through press and the Council’s website;  
Note: A “PE” would have more privilege than an “RE” in terms of better career opportunities, pay package, design certification, consultant work and international recognition.