PEC-CPD
Roles of NUST-PEBs

Coordination Workshop with Schools of
H-12 Campus
“4th April 2012”
Sequence of Presentation

- Define RE and PE?
- Why PE?
- PEC Initiative?
- Roles of PEBs
- PEC Framework for Engineers
- CPD and its Categories
- CPD and its Credit Points
- Way Forward…
Registered Engineer (RE): A person who holds an accredited engineering qualification, whether working privately or in the employment of an engineering public organization and is registered as such by the council.

RE shall perform all professional engineering works except independently signing design.
Professional Engineer (PE)

Professional Engineer (PE): A person who holds an accredited engineering qualification and after obtaining a professional experience of five years, whether working privately or in the employment of an engineering public organization, has passed the prescribed Engineering Practice Examination (EPE) and is registered as such by the council.
Privileges of a PE?

- Recognition of professional excellence and use of title “PE”
- Preference for promotion to higher levels of engineering professional status.
- Approval of studies drawings, cost estimation and other related engineering activity.
- Certify that the construction / operation is in accordance with design
- Certify the design quality of a product/process/project
Role of Pakistan Engineering Bodies

- All PEBs will provide yearly CPD calendar to PEC by 1\textsuperscript{st} December of preceding year
- PEC may ask for clarification(s) if required
- Final calendar will be displayed on PEC website/ other sources of circulation
- PEBs would pay 20\% of fee charged on account of CPD imparted, to PEC
- PEBs will send verified copy of the same CPD activity within two weeks of its conduct to PEC for verification of the CPD points to be filed by the candidate(s)
Accredited Engineering Qualification

Registered Engineer

5 Year work experience plus 17 credit points of CPD

EPE

Professional Engineer (for 3 years)

CPD Points (3 credit Pts/Year)
CPD?

CPD may be defined as the intentional updating of professional knowledge and the improvement of professional competence throughout a person’s working life.
Categories of CPD and its Accumulation

The CPD programs include additional qualifications, professional skills, relevant to management and communication skills acquired through additional training and experience. These aspects are grouped into following four different categories:

1. **Formal Education.** accredited engineering programs and related education in management, Law, Finance, economics and architecture etc.

2. **Work Based Learning.** On-job learning that takes place because of the workplace requirements on projects like construction, operation, supervision at site, development of computer programs or software package etc.
3. Development Activities: “attendance of structured educational or developmental meetings over a period of time like conferences, workshops, seminars and refresher courses from council’s approved bodies”

4. Individual Activities: Publications of technical articles in reputed refereed journals, part time lecturing in an approved technical associations or institutions
Accumulation of CPD Credit Points

- CPD shall be accumulated in the following categories with maximum limit per year given against each category:

<table>
<thead>
<tr>
<th>Categories</th>
<th>Activities</th>
<th>Maximum Credit Points / annum</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category - a</td>
<td>Formal Education</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Category – b</td>
<td>Work Based Learning</td>
<td>2</td>
<td>800 hours (400 hrs/credit)</td>
</tr>
<tr>
<td>Category – c</td>
<td>Developmental Activities</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Category - d</td>
<td>Individual Activities</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
# Quantification of CPD

<table>
<thead>
<tr>
<th>Category</th>
<th>Applicable CPD Program</th>
<th>Duration Credit Hr</th>
<th>Credit Pts</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category-c</td>
<td>1. Membership of a recognized professional association/body</td>
<td>02</td>
<td>1</td>
<td>National International Limit=2 memberships per year</td>
</tr>
<tr>
<td>Developmental Activities</td>
<td>2. Participation in training &amp; Development Program</td>
<td>02</td>
<td>2</td>
<td>1</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>
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<tr>
<td></td>
<td>4. Participation in Seminar</td>
<td>1 day</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. Participation in Lectures</td>
<td>1 day</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. Participation in Workshop</td>
<td></td>
<td>1</td>
<td></td>
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<tr>
<td></td>
<td>7. Refresher Course/ Short course</td>
<td></td>
<td>1</td>
<td></td>
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Engineering Practice Examination

- For assessment of engineering competence, knowledge and skills of an applicant engineer, the PEC shall hold an examination
- The EPE is optional for a registered engineer but is an essential part of assessment for the title of PE

Eligibility:
When a RE has attained a minimum of 5 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 or she shall become eligible to apply for EPE
Grant of Title of “PE”

When a registered person has accumulated at least 17 credit points in first 5 years after initial registration and has qualified the EPE and both of which have been certified by EPDC, PEC enrolment committee may grant the title of “PE” to a “RE” on submission of application.