

professional engineers board
singapore

Continuing Professional Development
Guidelines

professional engineers board singapore

GUIDELINES

ON

CONTINUING PROFESSIONAL

DEVELOPMENT

FOR

PROFESSIONAL ENGINEERS

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Guidelines on CPD for PEs

1. CPD Policy

In this fast changing and dynamic environment, there is a need for professional engineers (PEs) to maintain and update their professional competence on a continuing basis.

The objective of the Board's Continuing Professional Development (CPD) programme is to reinforce the need for lifelong learning and to provide a framework through which PEs could systematically maintain and enhance competency to do a job in their area of expertise.

As a PE may be operating under circumstances which are unique to him, the focus of the CPD activities is best left to each PE to decide. The principle is that the relevant CPD activities must be those related to the scope of practice of each PE.

The Board will therefore not prescribe specific rules as to the nature and type of activities to be undertaken but will allow each PE the flexibility to select from amongst a broad range of activities. The range of activities in this CPD programme is not intended to be inclusive but to act as a general guide.

The activities that would be relevant are those that will enable one to:

- a) maintain, improve, or expand technical skills and knowledge;
- b) keep abreast of changing procedures and standards;
- c) understand and apply advances in technology;
- d) better serve the engineering profession, community and environment;
- e) develop communication and management skills; and
- f) broaden into related fields, such as those covering management, financial or legal aspects.

2. Definitions

The terms used in this document have the following meanings:

- a) "contact hour" refers to an attendance or involvement lasting one clock hour of not less than 50 minutes;
- b) "professional development units" or "PDU" refers to the unit of measure for effort in continuing professional development program;
- c) "PC" means the annual practising certificate;
- d) "renewal qualifying period" refers to a 12-month period immediately prior to an application for renewal of the PC. For a PC commencing on 1 Jan of the following year, the renewal qualifying period will be from 1 Nov of the preceding year to 31 Oct of current year. For example, for a PC commencing on 1 Jan 2004, the renewal qualifying period will be from 1 Nov 2002 to 31 Oct 2003;
- e) "structured activity" refers to a course or activity that is accredited by the Board or which involves active participation;
- f) "unstructured activity" refers to an activity that involves self-directed learning, reading, discussion or participation;

Guidelines on CPD for PEs

3. Requirements for renewal of PC

Every PE who wishes to renew his PC for the year 2005 onwards is required to obtain a minimum of 40 PDUs over the renewal qualifying period. The 40 PDUs shall comprise a minimum of 15 PDUs in structured activities, and the remainder can be obtained from either structured or unstructured activities.

The determination of PDUs in structured and unstructured activities is as shown in Appendix A.

4. Carrying over of excess PDUs

If a PE exceeds the annual requirement in one renewal qualifying period, a maximum of 40 PDUs from excess PDUs obtained from **structured activities** may be carried forward into the next renewal qualifying period.

5. Insufficient PDU for renewal of PC

A PE who has not obtained sufficient PDUs in the renewal qualifying period to meet the requirement for renewal of his PC may apply to have his PC renewed by providing reasons for the failure to meet the requirement. The Board may renew his PC and may impose a condition that the shortfall in PDUs in that renewal qualifying period has to be obtained during the following renewal qualifying period. The PDUs to be obtained in the next renewal qualifying period to meet the shortfall cannot be used for the renewal of the PC for the next renewal period.

6. Reinstatement after a lapse of 3 years

A PE whose PC had lapsed for 3 years or more is required to obtain 80 PDUs within the renewal qualifying period, of which at least 30 PDUs must be obtained from structured activities.

7. Exemptions

A PE may be exempt, subject to review and approval of the Board, from CPD requirements if he experiences physical disabilities, prolonged illness or other extenuating circumstances.

8. Records

When applying for renewal of PC, a PE will submit a declaration on Form PEB-CPD-A showing the PDUs obtained during the renewal qualifying period. A copy of the form, together with the detailed worksheets, is in Appendix B. The form can also be downloaded from Board's web site at <http://www.peb.gov.sg>. PEs do not have to submit documentary evidence together with the application for renewal of PC. PEs are advised to retain the documentary evidence for a period of at least 2 years.

Guidelines on CPD for PEs

9. Audit Process

The Board will conduct random audit of PEs each year and those selected will be asked to produce documentary evidence of their CPD participation during the particular period. The documentary evidence may take any one of the following forms:

- a) Summary of diary records or a log showing the activities claimed;
- b) Course enrolment record;
- c) Receipts;
- d) Certificate of attendance;
- e) Attendance list from course organiser;
- f) Employer's report or certification;
- g) Statutory declaration.

10. Accreditation of Category 1 Structured Activities

Structured activities under Category 1 will be accredited by the Board's CPD Committee. All activities that are accredited will be posted on the Board's web site to keep PEs aware of the available accredited structured activities and the corresponding PDUs. PEs are advised to refer to the Board's web site, (at <http://www.peb.gov.sg>) for events related to the CPD programme.

11. Fee for accreditation

No processing fee will be levied on applications for accreditation initially. However, the Board reserves the right to impose charges to defray administrative costs.

12. Framework for accreditation

The Board's CPD Committee will constitute 4 panels of evaluators to assist in the accreditation of structured activities - one panel each for activities pertaining to civil & structural engineering, electrical engineering, mechanical engineering and others. Each panel will comprise 5 members drawn from various organisations such as government agencies, university, IES, ACES and industry.

Applications which are straightforward and can meet certain minimum prescribed criteria will be approved directly by the co-ordinator. Those applications which fall outside this category will be referred to one relevant panel of evaluators for evaluation and decision.

The main criteria for accreditation of a Category 1 Structured Activity are:

- the activity should be relevant to the development of PEs; and
- there should be sufficient confidence that the knowledge could be imparted to the participants.

Guidelines on CPD for PEs

Courses on engineering by professional and tertiary institutions will generally be accredited. Other courses will be assessed on whether the above criteria could be met, and the following factors will be considered:

a) Topic of activity

A synopsis of the activity will have to be submitted by the applicant. The activity should be relevant to PEs practising in their respective engineering disciplines, viz. civil, electrical, mechanical or others. The evaluation will be based mainly on the synopsis and other information that are submitted.

b) CV of the speaker

The speaker is expected to satisfy the following criteria:

- is a PE who has more than 5 years of practical experience or involved in the research of specific engineering works;
- is a non-PE, but possesses more than 10 years of specific experience in that relevant engineering field or involves in innovative engineering works;
- had published a paper on the subject in distinguished publications, conference proceedings, professional journals or books; or
- possesses qualification or knowledge acceptable to the Board.

13. Information on accredited activities

All activities which had been accredited by the Board will be posted on the Board's web site, at <http://www.peb.gov.sg>.

14. Overseas Courses, Seminars, etc

Either the course organiser who is organising, or PE who is attending, the seminar/course can submit the overseas course/seminar for accreditation.

15. Online system

A web-based application system has been developed by the Board to cater for:

- a) submission and processing of applications for accreditation of structured activities; and
- b) recording of PDUs obtained by PEs.

The Board will inform all PEs about details of the system at a later date closer to the completion of development of the system.

Guidelines on CPD for PEs

16. Application for Accreditation by Course Organiser

Course organiser of Category 1 Structured Activities can apply for the activity to be accredited using the form in Appendix C.

The course organiser will be informed of the outcome of the application for accreditation within 2 weeks. All activities which have been accredited by the Board will be posted on the Board's web site, at <http://www.peb.gov.sg>. The Board will provide a hyperlink from the list of accredited activities on the Board's web site to information on the course at the course organiser's web site, if the URL has been provided by the course organiser.

After the activity has been successfully accredited by the Board, the course organiser is required to submit, within 2 weeks after completion of the event, a copy of the attendance records to the Board for information. This record is intended to be used only for verification when a random audit is conducted.

Appendix A - Requirement and Determination of PDU

Requirement: A minimum of 40 PDUs over a renewal qualifying period of 12 months, of which a minimum of 15 PDUs must be from structured activities.

Determination: Based on the Tables 1 - Structured Activities and Table 2 - Unstructured Activities as shown below.

Table 1 - Structured Activities

CATEGORY	CRITERIA	PDUs
<p>Category 1(a): Accredited formal study courses</p>	<p>Relevant post-graduate or diploma courses on engineering and/or construction/project management. Example: a) MSc (Engineering) b) MSc (Project Management)</p>	1 PDU for each contact hour
<p>Category 1(b): Accredited lectures, short courses, conferences, workshops & seminars</p>	<p>Lectures, short courses, conferences, workshops & seminars which are relevant for professional engineers on technical, management, professional development, legal or regulatory matters. Examples: a) Seminars on regulatory requirements by government agencies eg. BCA, FSB, ENV, LTA, etc. b) "Engineers and the Law" by IES c) Workshops and seminars on engineering topics by NUS or NTU</p>	1 PDU for each contact hour
<p>Category 1(c): Accredited in-house training</p>	<p>Structured in-house training which are relevant to professional engineers on technical, management, professional development, legal or regulatory matters. (CV of speakers to be similar to category 1(a) or 1(b).)</p>	1 PDU for each contact hour

Appendix A - Requirement and Determination of PDU

CATEGORY	CRITERIA	PDUs
<p>Category 2:</p> <p>Participation in Professional Boards, Committees and Societies</p>	<p>a) Member of Boards of local Professional institutions or relevant government agencies.</p> <p>Examples:</p> <ul style="list-style-type: none"> i) Board Member of BCA, LTA, HDB, URA, JTC, PEB and BOA ii) Council Member ACES and IES 	<p>8 PDUs per organisation.</p>
	<p>b) Member of relevant technical or working committees of professional associations and government agencies.</p> <p>Examples:</p> <ul style="list-style-type: none"> i) Member of Technical Committees of government departments and Statutory Boards; ii) Member of technical or other working committees of ACES & IES; iii) Member of approved technical societies. 	<p>4 PDUs per Committee (Maximum for this category is 8 PDUs)</p>
<p>Category 3:</p> <p>Contribution to relevant engineering or management Knowledge</p>	<p>a) Conduct accredited lectures, seminars, conferences or training courses for the first time. (Exclude regular lectures by full-time lecturers)</p>	<p>4 PDUs for each lecture hour or part thereof</p>
	<p>b) Conduct accredited lectures, seminars, conferences or training courses after the first time. (Exclude regular lectures by full-time lecturers)</p>	<p>2 PDUs for each lecture hour or part thereof</p>
	<p>c) Write or edit technical articles or papers published in distinguished publications, conference proceedings, professional journals or books.</p>	<p>5 PDUs for each topic</p>
	<p>d) Engineering patents registered during the year</p>	<p>15 PDUs for each patent</p>

Appendix A - Requirement and Determination of PDU

Table 2 - Unstructured Activities

CATEGORY	CRITERIA	PDU's
Category A: Self study of relevant topics	i) Reading of relevant technical, professional, financial, legal or business literature.	1 PDU for every 2 hours (Maximum for this category is 16 PDU's)
	ii) Listening/viewing audio/video tapes on relevant topics or taking correspondence courses.	
Category B: Informal In-house training and discussion	i) Conducting informal in-house training and presentations to colleagues.	1 PDU for every 2 hours (Maximum for this category is 16 PDU's)
	ii) Attending informal in-house training and presentations.	
Category C: Professional Membership	i) Membership of professional engineering or management bodies.	2 PDU's per organisation (Maximum for this category is 16 PDU's)
Category D: Non-accredited engineering activities	i) Attending professional and technical courses which are not accredited.	1 PDU for every 2 hours (Maximum for this category is 16 PDU's)
	ii) Attending organised group technical site visits and exhibitions.	

Appendix B - Forms

Professional Engineers Board, Singapore Continuing Professional Development Programme

Name: _____ PE Registration No: _____

Renewal Qualifying Period: _____ to _____ Renewal of PC for year: _____

Structured Activities	Description of Each Activity	PDU
Category 1(a): Accredited formal study courses. (1 PDU for each contact hour)		
	Sub-Total for Category 1(a)	
Category 1(b): Accredited lectures, short courses, conferences, workshops & seminars. (1 PDU for each contact hour)		
	Sub-Total for Category 1(b)	
Category 1(c): Accredited in-house training. (1 PDU for each contact hour)		
	Sub-Total for Category 1(c)	
Category 2: Participation as member of Board of relevant government agencies, Council of Professional Institutions and Technical Committees	(a) Board or Council members. (8 PDUs per organisation)	
		Sub-Total for Category 2(a)
	(b) Member of technical committees. (4 PDUs per committee)	
		Sub-Total for Category 2(b), subject to maximum of 8 PDUs
Sub-Total for Category 2		
Category 3: Contribution to relevant engineering or management Knowledge	(a) Conduct accredited courses for 1st time	
	(b) Conduct accredited courses after the 1st time	
	(c) Write or edit technical papers	
	(d) Register engineering patents	
Sub-Total for Category 3		
TOTAL FOR STRUCTURED ACTIVITIES		

- Notes:
- i) You do not need to submit this form when applying for renewal of Practising Certificate.
 - ii) You are advised to keep this record for 2 years.

Appendix B - Forms

Professional Engineers Board, Singapore Continuing Professional Development Programme

Name: _____ PE Registration No: _____
 Renewal Qualifying Period: _____ to _____ Renewal of PC for year: _____

Unstructured Activities	Description of Each Activity	PDUs
Category A: Self study of relevant topics. (1 PDU for every 2 hours, subject to a maximum of 16 PDUs)		
	Sub-Total for Category A, subject to a maximum of 16 PDUs	
Category B: Informal In-house training and discussion. (1 PDU for every 2 hours, subject to a maximum of 16 PDUs)		
	Sub-Total for Category B, subject to a maximum of 16 PDUs	
Category C: Professional Membership. (2 PDUs per organisation, subject to a maximum of 16 PDUs)		
	Sub-Total for Category C, subject to a maximum of 16 PDUs	
Category D: Non-accredited engineering activities. (1 PDU for every 2 hours, subject to a maximum of 16 PDUs)		
	Sub-Total for Category D, subject to a maximum of 16 PDUs	
TOTAL FOR UNSTRUCTURED ACTIVITIES		

Notes: i) You do not need to submit this form when applying for renewal of Practising Certificate.
 ii) You are advised to keep this record for 2 years.

Appendix B - Forms

FORM PEB-CPD-A (Aug 2001)

Professional Engineers Board, Singapore Continuing Professional Development Programme

Name: _____ PE Registration No: _____
Renewal Qualifying Period: _____ to _____ Renewal of PC for year: _____

STRUCTURED ACTIVITIES	PDU's
Category 1(a): Accredited formal study courses	
Category 1(b): Accredited lectures, short courses, conferences, workshops & seminars	
Category 1(c): Accredited in-house training	
Category 2: Participation in Professional Boards, Committees and Societies	
Category 3: Contribution to relevant engineering or management Knowledge	
Sub-Total - Structured Activities (Minimum requirement = 15 PDU's)	
UNSTRUCTURED ACTIVITIES	
Category A: Self study of relevant topics	
Category B: Informal In-house training and discussion	
Category C: Professional Membership	
Category D: Non-accredited engineering activities	
Sub-Total - Unstructured Activities	
TOTAL (Minimum requirement = 40 PDU's)	

I certify that I have: *(please tick the appropriate box below)*

- completed the required PDU's, as shown in the table above.
- completed the PDU's as shown in the table above, and they are insufficient to meet the requirement due to the following reason(s):

Signature

Date

Note: a) This form is to be submitted together with your application for Practising Certificate.

Appendix C - Application Form for Accreditation

CONTINUING PROFESSIONAL DEVELOPMENT APPLICATION FOR ACCREDITATION OF STRUCTURED ACTIVITY

To: Professional Engineers Board
1st Storey, Tower Block MND Complex, 5 Maxwell Road
Singapore 069110

I hereby apply for the activity as described in Sections A and B below to be approved as a structured activity under Category 1 of the PE Board's Continuing Professional Development programme.

Section A

Type of activity: Category 1(a) - Formal study course
(Please tick the appropriate box) Category 1(b) - Lecture, short course, conference, workshop or seminar
 Category 1(c) - in-house training

Title of Activity: _____

URL to link to web site: http://www. _____

Please attach a synopsis of the activity.

Section B *(If a complete brochure is attached, the particulars in this Section need not be completed)*

Name of Course Organiser: _____

Name of lecturer(s) or speaker(s) 1) _____
2) _____
[a) - Enclose CV of each speaker;
b) - Use a separate sheet if there
are more than 5 speakers] 3) _____
4) _____
5) _____

Venue: _____ Course fee: _____

Duration of activity: From (Date & Time): _____ To (Date & Time): _____
[Attach program] Total number of contact hours: _____

Contact Person(s): 1) _____ Tel: _____
2) _____ Tel: _____

Information on how to register for the course: _____

Name

Signature

Date

Section C *(To be completed by PE Board)*

To:

This is to inform you that the above application for accreditation under the PEB CPD Programme is:

approved. The number of PDU for the activity is: ____
Please forward to PE Board a copy of the attendance list after completion of the activity.

not approved.

Thank you.

for Registrar
PE Board

