





Pakistan Engineering Council
GUIDEBOOK

Engineering
Practice
Examination



Dear Engineer,

Your career requires that you become professional engineer, the only gateway to attain the status of Int. PE. It is my privilege to present this *EPE Candidate Handbook*—a concise guide for all engineers pursuing the Professional Engineer (PE) title. The Engineering Practice Examination (EPE) is our national benchmark of competence and ethics, safeguarding the public interest and strengthening professional credibility.

Inside, you will find exactly what matters: eligibility, application steps, exam format and rules, discipline syllabi, and practical preparation tools—checklists, study plans, and exam-day tips—so you can prepare with focus and confidence.

Becoming a PE is more than passing an exam. It is a pledge to protect life and environment, steward resources responsibly, uphold ethics, and collaborate for national progress. Plan early, align your study with the official syllabus, and use this handbook to avoid common pitfalls—from documentation to exam-day readiness.

I wish you remarkable success and look forward to welcoming you to the esteemed community of Professional Engineers. Your real-world contributions to national development are highly anticipated and deeply valued.

Warm regards,

Engr. Waseem Nazir Chairman, Pakistan Engineering Council

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Chapter 1 About this Handbook

1.1 Purpose and Scope

This EPE Candidate Handbook is a practical, cycle-agnostic guide to help Registered Engineers (RE) prepare for and navigate the Engineering Practice Examination (EPE) and, upon success, progress toward registration as Professional Engineer (PE). It consolidates eligibility criteria, CPD essentials, application steps, exam structure and rules, discipline syllabi overviews, preparation strategies, exam-day guidance, and post-exam pathways.

Scope: it is inclusive of all engineering disciplines recognised by PEC at national level; all future EPE cycles (updated each cycle as needed).

What this is not: a replacement for official PEC notifications, byelaws, or syllabi. In any conflict, PEC's official publications prevail.

1.2 Who Should Use This Guide

Registered Engineers (RE) targeting PE who meet, or are planning to meet, EPE eligibility (experience + CPD criteria).

- i. **Employers/ HR and training leads** aligning internal development with EPE requirements.
- ii. **Supervisors/ mentors** supporting candidates with study plans, references, and professional exposure.
- iii. **Academics and trainers** mapping course content and mock assessments to EPE outcomes.

1.3 How to Use This Book

Read actively and work from checklists. Treat this as a planning and execution manual rather than a one-time reference.

A. Checklists You Will Revisit

- Eligibility Self-Audit: experience tally, CPD points, discipline selection.
- **Application Checklist**: required documents, portal steps, fee proof, roll-number slip, centre selection.
- Exam-Day Checklist: identification, permitted calculator, stationery, open-book materials (discipline-specific), reporting times.
- **Post-Exam Checklist**: interpreting results, retake windows (if needed), PE application artifacts after passing.

B. Best-Use Pattern

- Plan: translate the chosen study plan into weekly targets and a disciplined timetable.
- **Practice**: complete MCQ blocks; maintain an error log keyed to syllabus outcomes.
- Prepare: assemble and label open-book materials early; create an index for rapid retrieval.
- **Perform**: adhere strictly to exam-day timelines, conduct rules, and answer-sheet instructions.
- **Progress**: if a retake is required, use error logs and tracker data to target gaps precisely.

C. Staying Current

Dates, fees, centres, and syllabi may change. Use this handbook for method and structure; confirm every cycle's specific against the Council's official notices and syllabi before finalizing plans.

Chapter 2 EPE at a Glance

2.1 What is EPE and why it matters for the PE title?

The Engineering Practice Examination (EPE) is PEC's standardized, assessment of an RE's competence and readiness for independent practice. Passing EPE is an essential step towards registration as a Professional Engineer (PE), the credential that signals public-safety responsibility, ethical practice, and professional leadership.

2.2 Exam format in one page

- Structure: Two parts on the same day: Part-I (2 hours, 40 MCQs, common to all disciplines) and Part-II (3 hours, 60 MCQs, discipline-specific). Part-II is open-book (books and bound copies only; no loose notes). A 90-minute break between two parts. Part-II is further divided into two parts. (Part-A, Breadth) and (Part-B, Depth).
- Pass criteria: 60% in each part, and each part must be passed independently.
- Retake window: If a candidate does not qualify in any part, they may re-appear in the same part in the next three consecutive examinations. If not qualified/not appeared within those three, they are declared not qualified and may re-appear in both parts.
- **Personal presence** is mandatory no proxy is allowed.
- Conduct & materials: Simple calculator only; programmable/electronic devices are prohibited. Original CNIC, PEC registration card, and roll-number slip are required at entry.

PEC announces a widely circulated schedule, typically twice per year (frequency may be revised by PEC). Watch official

notices on the PEC website and advertisements for each cycle's exact dates and centres.

2.3 Fees & payment overview

Fee heads and collection details are published on the EPE page; always confirm the prevailing cycle notice before payment. If the applicant didn't inform 15 days before the exams about his inability to appear in exam, then his whole fee will be considered as consumed.

Chapter 3 Eligibility & Application

3.1 Five-year post-registration experience

A Registered Engineer becomes eligible for EPE after attaining a minimum of five (05) years of practical experience in a relevant field of engineering with a recognized organization/institution service and meeting the CPD credit requirement. For scheduling purposes, PEC counts experience up to the closing date of the exam announcement.

How to count your five years

- Start from your PEC RE registration date, then sum fulltime, relevant engineering roles till the announcement's closing date. Part-time or unrelated assignments should not be included in the five-year core.
- Experience must be engineering practice (design, analysis, supervision, operations, project management, etc.) in your discipline or allied areas as recognized by PEC.

illustrative examples

• Eligible: RE date 15-Aug-2020; continuous relevant employment up to 30-Sep-2025 → meets 5-year threshold for an Oct-2025 announcement.

Tip: Maintain employer letters with **from-to dates**, role titles, and responsibilities aligned to your discipline for verification (as reflected in the PEC EPE application form evidence list).

3.2 CPD points requirement

Rule. To sit EPE, an RE must have 17 CPD credit points since 10 July 2010 or their initial date of registration whichever comes later.

Break-up under the PDE Byelaws (updated 2024). Of the required CPD credits, up to 10 points may come from practical experience, with the remaining points drawn from other CPD categories (courses, conferences, publications, teaching, etc.), as defined in PEC's CPD framework in PDE Byelaws, 2008 (Amended up to 15th February 2024)

Good practices

- Use PEC's **CPD calculator**/ **records** to total points and map them to the correct categories.
- Keep attested documentary evidence for each CPD item (certificates, agendas, proof of participation), as required in the EPE application.
- Keep filing CPD claims up to date on your CPD portal.

3.3 Discipline selection & special cases.

Core principle. Part-II is discipline-specific (Breadth + Depth). Part-II is composed of two sections: Section A (Breadth) "generally conforms to the latest undergraduate curriculum" of that discipline, and Section B (Depth) targets specialized areas. Candidates should select the discipline aligned with their accredited degree and professional practice.

If you have multiple qualifications/ experience

- If you hold more than one engineering qualification, indicate your preferred field of specialization on the application; prepare for the syllabus of the chosen discipline.
- Allied-discipline cases are permissible where PEC syllabie explicitly cover allied fields (e.g., Civil & allied; Electrical & allied). Always match your actual practice to the selected syllabus.

Open-book note for Part-II. Part-II is **open-book as** per PEC syllabi/ notes (bound books/standards; electronic devices are restricted as per candidate guidelines). Verify permitted materials for your discipline in the current cycle notice.

Note: Details of disciplines and specializations are mentioned in Appendix -A

3.4 Self-audit checklist

A. Registration & Experience

- i. PEC RE certificate is valid and active. Dates verified.
- ii. Five (05) full years of relevant engineering practice accrued by the closing date of the target exam announcement.
- iii. Employers experience letters (designation, duties, dates) obtained for each stint; responsibilities map to your discipline.

iv.

B. CPD Credits

- i. Total CPD \geq 17 points), with evidence attached.
- ii. Points categorized per CPD Byelaws; if you rely on experience-based credits, ensure ≤ 10 are counted from experience, with remaining points from other CPD categories.
- iii. CPD log tallies with **PEC CPD calculator/ records** (print out saved).

C. Discipline & Syllabus

- Discipline selected matches accredited degree and/ or principal practice area.
- ii. Latest **Part-II syllabus** (Breadth & Depth) downloaded; topic list reviewed against work exposure and study plan.
- iii. **Open-book kit** plan drafted (bound codes/standards/texts as permitted for the discipline).

D. Readiness to Apply

- Application dossier complete: Valid RE registration, experience certificates, CPD evidence, photos, fee receipt.
- ii. Aware of pass criteria (60% in each part) and retake window (up to three consecutive exams for the failed part).

Chapter 4 CPD: Earning & Tracking Points

4.1 What Counts Towards CPD

PEC recognizes multiple categories of learning and practice. For EPE eligibility, you must show **17 CPD points** with valid evidence. Typical categories include:

- **Formal education** (e.g., higher education recognized by HEC).
- Work-based learning / experience (engineering roles including management), countable up to a capped portion of the total.
- **Developmental activities** (CPD courses, workshops, seminars, conferences, lectures, etc.). Evidence (certificates/attendance) is required for every claim.
- Individual Activities (Membership of a recognized professional association/ body), invited lecturer, writing and publishing a research article.

Note: <u>Details of categories with caps and valid activities is at Appendix -B</u>

4.2 Using PEC's CPD Calculator / Resources

- **CPD portal:** Access **cpd.pec.org.pk** → *CPD Profile* and *Calculator of CPD Points*. The portal lists CPD activities (short courses, webinars) and provides the calculator/download
- Calculator (download): "Calculator of CPD Points" (Excel) details categories and point allocations—

keep a local copy for tallying and attach to your dossier.

- Guideline manual: "CPD Guideline Manual" explains categories, evidence, and the requirement (see forms/annexes for how to layout your claims).
- **How to earn CPD points:** PEC's "How to Earn CPD Points" summary outlines activity types and documentation needs. Cross-check before enrolling in any activity.

4.3 Fast-Track Ideas to Cover CPD Gaps (Ethical Compliance)

Use these **compliant** avenues if you are short of points. Always obtain and retain proper evidence and ensure the provider is recognized where required.

- Enrol in PEC/PEB CPD activities: Short courses and live webinars published on the CPD portal/calendar.
- **Structured self-development:** Where permissible by current CPD rules, credit eligible formal education or within each category limit/ cap.
- Plan with the calculator: Enter prospective activities in the Excel calculator to verify your tally before you register/pay.

Integrity note: Misstating hours, using unrecognized bodies, or submitting unverifiable certificates risks rejection of CPD claims and may affect your EPE application. Always align with the latest PDE Byelaws/policies.

Chapter 5 Application Process

This section converts official announcements into a practical sequence of actions. Always verify the current cycle notice for dates, centres, fees, and any updated instructions before submission.

5.1 Cycle Timelines and Official AnnouncementsWhat to monitor

- Publication of the EPE cycle notice/ advertisement on the Council's website and official channels.
- Opening and closing dates for applications and fee submission.
- Announced examination date, reporting time, and list of exam centres.
- Candidate guidelines (items permitted, identification requirements, conduct).
- Any corrigenda, reschedules, or centre changes.

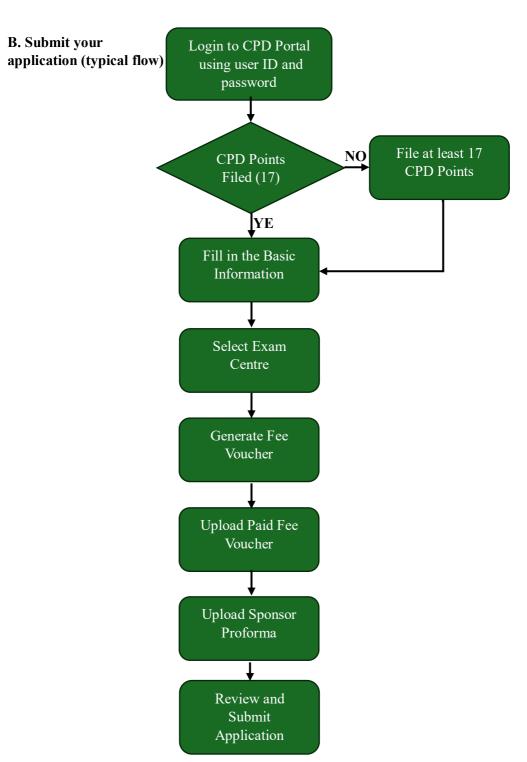
Calendar capture (recommended)

- Application window: open → close.
- Fee voucher/payment deadline.
- Expected roll number slip & confirmation of exam centre.
- Examination date and reporting time.

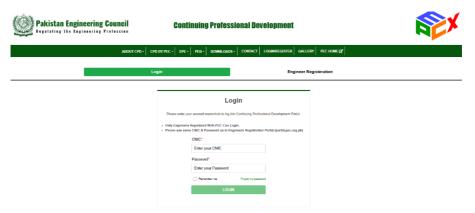
5.2 Documents and Portal Steps

A. Prepare documents.

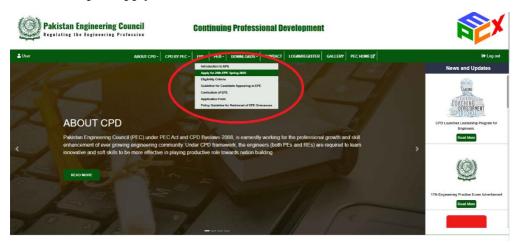
- Valid PEC Registered Engineer (RE).
- Experience certificates/letters (designation, duties, startend dates) filed on CPD portal.
- CPD evidence (certificates/attendance; optional calculator printout if used) filed on CPD portal.
- Recent passport-size photographs (blue/white background).
- Fee receipt/proof (per cycle instructions).



Step1: Login to CPD Portal (cpd.pec.org.pk)



Step 2: Apply for EPE



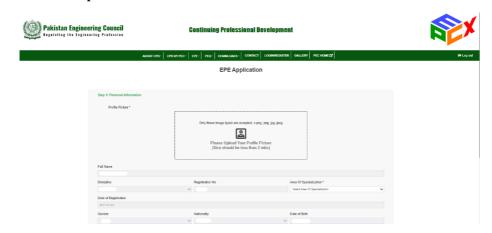


Continuing Professional Development



	ABOUT CPD - CPD BY PEC - EPE - PEB - DOWNLOADS - CONTACT LOGINITEGISTER GALLERY PEC HOME (2)	€ Log out				
Introduction to EPE	Introduction to EPE					
Eligibility Crietoria	For assessment of competence, knowledge and skills of a Registered Engineer (RE) for elevation towards Professional Engineer (PE). Engineering Practice Examination (EPE constituted part of CPD framework. The EPE is optional for a Registered Engineer but is an essential part of assessment for the title of Professional Engineer for having author					
Guidelines for Candidates Appearing in EPE	independently signing the design. When a registered engineer has attained a minimum of five years of practical experience in relevant field of engineering from a recognized engineering group. At the design or service and has earned requisite credit points (17 CPD points), he shall become eligible to apply for EPE. For further details and schedule of EPE, please					
Curriculum of EPE	click here.					
Application Form	Apply For Exams					
Calculator of CPD Points	25th EPE Fail 2025					
Policy Guidelines for Redressel of EPE	For turn say or salmitted through Bank Alfalah system generated voucher. Fee deposited through any other method will not be considered.					
	EPE Mechanism					
	 Widely circulated schedule of EPE twice a year or in accordance with the frequency revised from time to time through newspapers/ website for submissi applications 	ion of				
	 Verification of pre-requisites and record by CPD Secretariat to finalize the list and issuing Roll Number Code, indicating Examination Centre accordingly (via por email). The roll number/ code shall be used during the examination. A valid CNIC would be required. 	st and				
	 EPOC shall be responsible for administering examination at the designated centres. The centres shall be based mainly at Public Sector Engine Universities/Institutions at a location where resonable cluster of internet connected computers (about 250-300) could be available. Security of all the centres sh ensured through concerned institutions. 					
	 Both parts (Part1 and Part3) of the examination shall be held on the same day with ninety minutes break. The EPDC through notified Experts' Committees shall review the syllab of EPE trum time to time and get prepared the MCOs through Experts' Committees. App MCOs after review shall be added into the MCOs deturned. 	roved				
	 After amounteement of each EPE, the Experts Committees of relevant engineering disciplinest specialized areas, as nominated by EPDC, shall prepare MCQ-4 examination papers for all engineering disciplines afteast fifteen days before the conduct of examination. 	based				
	 EPDC shall appoint the Exam Conveners (from among Governing Body) for overall monitoring of the EPE proceedings in each examination centre, who sh 	all be				

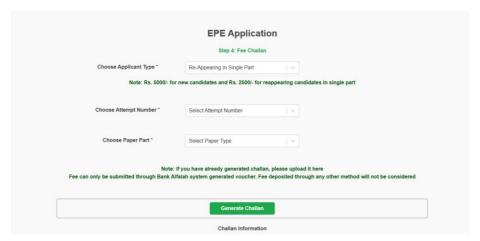
Step 3: Fill the form.



Step 4: Select centre preference.



Step 5: Select if New or re-appearing candidate and generate fee voucher.



Step 6: Upload sponsor details and proforma



Step 7: Review and submit application.

C. Quality checks before you click "Submit."

- Five full years of relevant experience accrued by the cycle's closing date.
- CPD total ≥ 17 points within category limits, with evidence.
- Specialization selected aligns with accredited degree and primary practice.
- Latest syllabus (Part-II Breadth and Depth) downloaded for preparation alignment.

• Names, dates, and CNIC/PEC numbers are consistent across all documents.

D. Application acknowledgement & scrutiny

- Once the application is submitted, you will receive acknowledgement email.
- PEC PDU Unit will scrutinize and share if any documentation is missing.

5.3 Roll Number Slip and Exam Centre Communication

Roll number slip.

- Roll number slip issued to your registered email with confirmation of exam centre.
- Print the roll number slip when released. It is mandatory for entry, along with original CNIC and PEC registration card.
- Verify on the roll number slip: name, CNIC/PEC number, discipline, centre, seat number, reporting time.

Chapter 6 Exam Structure & Rules

6.1 Oversight

The Engineering Practice Examination (EPE) is administered under the Engineering Professional Development Committee (EPDC). Discipline syllabi are developed and periodically reviewed by Experts' Committees and approved by EPDC. Examination operations are managed by the EPE Section at PEC HQ, including announcement, scrutiny, conduct, and results management. Test centres are primarily public-sector universities/institutions with secured facilities and adequate computing/administrative infrastructure.

6.2 Paper Development & Security Basics

- Format and outcomes: EPE is an MCQ-based assessment mapped to defined outcomes across Part-I (common to all disciplines) and Part-II (discipline-specific Breadth & Depth), with Part-II conducted on an open-book basis (books and bound copies only).
- Integrity of questions and scripts: Centralized preparation/handling under PEC; candidates must not attempt to influence examination staff/ processes. Violations invite disqualification per published guidelines.

6.3 Same-Day Two-Part Format & 90-Minute Break

EPE is conducted **in a single day** with **two parts** separated by a **90-minute break**:

• Part-I: 2 hours, common to all disciplines; MCQs; 60% required to qualify.

- Part-II: 3 hours, discipline-specific (Breadth & Depth); MCQs; open-book; 60% required to qualify.
- Retake rule: If a candidate does not qualify in any part, they may re-appear in that part in the next three consecutive examinations; failing to qualify/appear within this window results in "not qualified," after which the candidate may re-appear in both parts.
- Operational timings: Examination starts at 1000 hours; candidates must report at least one hour earlier. No entry after start time.

These parameters are specified in PEC's EPE and candidate guidelines; always confirm the current cycle notice before you are sitting.

Chapter 7 Syllabi & Discipline Maps

7.1 Part-I Syllabus Deep Dive (20% × 5 areas)

Format. Part-I is common to all disciplines: **40 MCQs**, **2 hours**, **60%** qualifying mark. Content weightage is evenly split across five areas (20% each). Use the outlines below to plan to read and drill practice.

Management (quality, finance, procurement, trends)

Scope: Quality; finance; procurement/legal (proposal \rightarrow bidding \rightarrow contract \rightarrow arbitration/escalation); and maintenance management (planning, control, standards).

Study focus

- Quality basics: definitions, planning vs. control vs. assurance, reliability in projects and services.
- **Finance**: functions and objectives of fiscal management; budgeting; cost—benefit thinking; financial discipline in projects.
- **Procurement & contracts**: proposal steps, procurement actions, bidding flow, award, arbitration concepts, escalation rationale/controls.
- Maintenance: objectives; types and planning; control methods; strategy and standards to minimise life-cycle cost.

Communication Skills

Scope: Basic English (direct/ indirect speech; active/passive; conditionals), composition/ summary, précis; principles of

effective organizational communication; seven Cs; presentation skills; business formats (letters, memos, résumé, emails/fax); communication and technology context.

Study focus

- Grammar transformations that frequently appear as MCQs (voice, speech, conditionals).
- **Seven Cs** and common business formats (salutation, subject, body order, tone).
- Presentation skills and concise technical summaries.

Ethics & Social Issues

Scope: Code of ethics; professional obligations; conflicts of interest/opportunity; interpersonal relations. Suggested references include standard engineering-ethics texts.

Study focus

- Duty of care, public safety, honesty, fairness, confidentiality, competence—apply to practical vignettes.
- Recognize **conflict of interest** situations (gifts, side contracts, relatives) and correct disclosures/recusals.
- Handling pressure from clients/employers while safeguarding public/environment.

Environmental Issues & Policy

Scope: Basics of environmental engineering/science; contaminants/pollutants; sustainability; **EQS/NEQS**;

organizations, legislation, monitoring, compliance; **Pak-EPA Act 1997**, ISO-14000; **EIA/IEE/EIS** definitions; national/provincial standards and reporting; decision-making for industries; evolution of EU/Pak frameworks.

Study focus

- Definitions and **regulatory instruments** (permits, NEQS parameters, compliance auditing).
- EIA workflow: screening → scoping → baseline → impact analysis → mitigation → EMP → monitoring/reporting.
- Roles of **Pak-EPA**, provincial EPAs, and ISO-14001 EMS concepts.

Hazards & Risk Management (NEBOSH-style anchors)

Scope: Occupational health hazards/risks; hazard identification methods; risk evaluation/assessment (incl. human behavioural aspects, fire safety); mitigation measures. Suggested texts include NEBOSH-aligned handbooks and CCPS references.

Study focus

- **Hazard ID**: HAZID, checklists, Job Safety Analysis, What-If; basics of HAZOP (concept).
- **Risk assessment**: likelihood × severity matrices; ALARP; human factors; permits-to-work; fire triangle, classes, and controls.
- Controls: hierarchy of controls (eliminate → substitute → engineer → admin → PPE); emergency response and incident learning.

7.2 Part-II Discipline Overviews (Choose Your Path)

Part-II format (applies to every discipline). Part-II is a 3-hour, open-book paper with 60 MCQs split into Breadth (25 MCQs) and Depth (35 MCQs); 60% is required to qualify. Breadth generally follows the latest B.E./equivalent curriculum of your discipline; Depth tests practical, field-based knowledge in the area you opt for.

Civil & Allied (Structures, Geotech, Transport, Water, etc.)

Breadth (examples): mathematics & statistics, engineering mechanics, surveying, materials/soil basics, hydraulics/hydrology, transportation, structural analysis/design.

Depth options typically include Structures, Transportation, Geotechnical, Water/Environmental/WR, and allied civil sub-areas (as listed in the syllabus). Each depth outline specifies advanced analysis/design topics, codes, and typical calculations.

Use it well.

- Choose the **Depth** that best matches your recent practice (projects, codes used).
- Build an **indexed code**/ **standard pack** (e.g., RCC/ steel design, highway/ airport, hydrology) to leverage the open-book format.
- The MCQs are scenario/ case study-based field-oriented and discipline specific.

Electrical & Allied (Power, Electronics, Telecom, etc.)

Breadth (examples): mathematics, circuits, electronics, control/signal processing, power basics, computer/digital systems, communications.

Depth options include tracks such as Electric Power (T&D, substations, protection, quality), Power Generation, High-Voltage Engineering, Power System Protection, among others listed in the PEC outline.

Use it well.

- Align Depth with your day-to-day work (e.g., protection studies, SCADA, HV equipment).
- Tab formulas, relay curves, equipment ratings, and system diagrams for quick retrieval in the hall.

Mechanical & Allied (Design, Manufacturing, Thermo-Fluids, etc.)

Breadth (examples): math & stats, measurement & instrumentation, design/manufacturing fundamentals, materials, thermo-fluids, heat transfer, mechanics of machines.

Depth options reflect major practice areas across **Design**, **Manufacturing**, and **Thermo-Fluids** (see PEC's Depth section for detailed topic lists and references).

Use it well.

- Bring data tables, charts, and standard formula pages (bound texts/standards) relevant to your chosen Depth.
- Practice dimensioning/tolerancing, cycle-time, and energy-balance MCQs that commonly appear.

Chemical & Polymer (Process Safety, Separation, Optimization, etc.)

Breadth (examples): math & probability, chemistry, engineering mechanics, fluid/heat/mass transfer, thermodynamics, reaction engineering, process control.

Depth options include Process Safety, Process Design/Optimization, Separation Processes, Utilities/Services, Instrumentation & Control, Thermal Hydraulics, and Polymer/Corrosion/Energy variants (per syllabus).

Use it well.

- Prepare property charts, correlations, and standard design heuristics, pre-tab major chapters in your core texts.
- Rehearse **PFD/P&ID** interpretation and typical sizing/relief calculations under time pressure.

Additional Disciplines (Agricultural, Mining, Textile, Petro-Gas, etc.)

PEC publishes dedicated syllabi (Breadth & Depth) and sample MCQs for several other disciplines—including **Agricultural**, **Mining**, **Textile**, **Petro-Gas**, **Materials & Metallurgical**, and more—accessible under the **Curricula of EPE** page.

7.3 Open-Book Norms for Part-II (What "Open-Book" Means)

• **Permitted: Books and bound copies** of standards/ codes/ texts as described in the discipline syllabus; use tabs and an index for speed. (Loose notes/handwritten sheets are not listed as permissible in the syllabi.)

Action for candidates

Download your discipline's **latest syllabus** and **sample MCQs** from PEC's Curricula page; map your Breadth/Depth preparation directly to those bullet lists and suggested references.

Scan the QR code to download.



(https://www.pec.org.pk/cpd/engineering-practice-examination/curricula-of-epe/)

Chapter 8 Preparation Playbooks

This section converts the syllabus into a realistic plan for busy professionals. Select the roadmap that matches your runway (12, 8, or 4 weeks). All plans assume Part-I (common) and Part-II (discipline) are attempted together; if you are re-appearing in one part, shift time accordingly.

8.1 Backward Planning from Exam Day

Assumptions

- Working professional (5–6 days/week).
- Target study time:
 - 12-week plan: 8–12 hrs/week
 - 8-week plan: 12–15 hrs/week
 - 4-week plan: 18–22 hrs/week

T-Timeline (anchor points)

- T-28 days: Finalize open-book kit; complete first full mocks of Part-I and Part-II.
- **T–21 days:** Close all "unknown formulas/codes" list; begin timed mixed blocks (30–40 MCQs).
- **T–14 days:** Full mocks; refine index tabs; start daily 30-min error-log reviews.
- T-7 days: Second full mocks; only light new learning; heavy revision and retrieval practice.
- T-2 days: Short drills only; logistics check (RNS, CNIC, PEC card, calculator).

• T-0: Exam Day execution (see Exam-Day Checklist).

Weekly study (any plan)

- Learn $(40\%) \rightarrow \text{Practice } (40\%) \rightarrow \text{Review } (20\%)$.
- Finish every study block with: (a) 6–12 MCQs, (ii) errorlog entry, (iii) next-step note.

Core tools

- Outcome tracker (syllabus outcomes vs. status).
- Error log (item, concept, fix, reference page/tab).
- Open-book index (two-level flags: topic \rightarrow page).

8.2 Twelve -Week Plan (Working Professionals)

Week 1–2: Orientation & Diagnostic

- Download latest syllabi; mark Breadth/Depth choice.
- Diagnostic mini-tests: 20 MCQs Part-I; 20 Breadth; 20 Depth.
- Build study backlog from diagnostics; set weekly targets.

Week 3–4: Part-I Foundations + Part -II Breadth

- Part-I: Management, Communication fundamentals, Ethics outlines.
- Part-II Breadth: two core clusters from your discipline (e.g., Circuits + Control; Structures + Hydraulics).
- End each week with 40 MCQs mixed (timed).

Week 5–6: Part-II Depth + Part-I Environmental/Hazards

- Part-II Depth: three priority themes; compile core formula sheets/data tables.
- Part-I: Environmental + Hazards anchors; EIA flow / risk matrix.
- Mock-0.5: attempt 20 (Part-I) + 20 (Breadth) + 20 (Depth).

Week 7–8: Part-II Breadth Revision + Part II Depth Problem Sets

- Revisit weak Breadth topics; add 2× timed blocks (30 MCQs each).
- Depth: worked examples; code/standard lookups with index practice.

Week 9: Full Mock-1 and Kit Draft

- Full timed simulations: Part-I (40 Q / 2h) and Part-II (60 Q / 3h).
- Build open-book kit (bound texts/standards) with tabs.

Week 10: Patch Week

- Close top 10 errors; redo similar MCQs; add 2 mixed blocks (40 each).
- Update index tabs with frequently accessed pages.

Week 11: Full Mock-2 + Retrieval

- Full simulations; review in error log; flashcards for formulas/definitions.
- Light Breadth drills daily (15–20 MCQs).

Week 12: Taper

- Full Mock-3 early in the week; then only revision and short drills.
- Logistics check; rest windows before exam.

8.3 Eight - Week Intensive Plan

Week 1: Diagnostic + Schedule Lock

- 3×20-MCQ probes (Part-I, Breadth, Depth).
- Map deficits; set evening blocks + one long weekend block.

Week 2-3: Part-I Core + Breadth Pass-1

- Management/Communication/Ethics; start Environmental/Hazards.
- Breadth: two clusters; end each week with 40 mixed MCQs.

Week 4–5: Depth Pass-1 + Indexing

- Depth major themes; start compiling tables/codes; practice fast lookup.
- Mid-plan Mock-1 (both parts).

Week 6: Breadth Pass-2 + Weak-Spot Clinic

- Close Breadth gaps; two timed sets (30–40 MCQs).
- Update error log; refine open-book tabs.

Week 7: Mock-2 + Focused Review

• Full simulations; debrief into specific fixes; re-work toughest 25 questions.

Week 8: Taper

• Mock-3 early; then maintenance drills and logistics.

8.4 Four - Week Crash Plan

Entry criteria: Prior familiarity with syllabus; ability to study 3+ hrs on weekdays or longer weekend blocks.

Week 1: Rapid Diagnostic + Plan

- 3×30-MCQ probes; freeze Breadth/Depth scope; draft kit list.
- Part-I: Management + Ethics; Breadth: top cluster; Depth: top two themes.

Week 2: Depth & Part-I Build

- Depth heavy practice with open-book lookup drills.
- Part-I Environmental/Hazards + Communication precis/grammar sets.
- Mixed block daily (25–30 MCQs).

Week 3: Mock-1 + Patch

- Full simulations; 48-hour patch cycle to close top errors.
- Finalize tabbed index; assemble printed quick sheets (within permitted materials).

Week 4: Mock-2 + Taper

- Second full simulation early; then only revision, light drills, and rest.
- Logistics check complete by T–2 days.

8.5 Tracking Mastery by Syllabus Outcomes Outcome tracker (simple grid)

- Columns: Outcome ID, Topic/Cluster, Status (Unseen / Seen / Practiced / Mastered), Last Score, Reference (Book/Page/Tab), Action Next.
- Rows: every Part-I anchor and every Breadth/Depth bullet from your syllabus.

Error log (per MCQ or concept)

• Item ID / Topic; why it went wrong (knowledge, misread, time, lookup); corrective note; reference page/tab; date rehearsed; retest result.

Mastery gates

- Gate-A (T–21 days): All outcomes at least Practiced; Part-II Depth tables complete; open-book index v1 ready.
- Gate-B (T-14 days): Average ≥ 65% on mixed timed sets; index v2 refined; no new sources added.
- **Gate-C** (T–7 days): Three full mocks done; weak topics isolated; only retrieval + light drills.

Risk buffers

- Reserve one "catch-up" block per week (2–3 hours).
- If Breadth < 55% by T-10 days, reallocate time from Depth drills to Breadth fundamentals.

Open-book practice rule

 Every Depth session includes at least two-timed lookups using your tabbed materials. Aim for <30 seconds per lookup for common tables/codes.

When re-appearing in one part

• Shift ≥70% of time to the failing part; do two full mocks of that part per week; keep the other part "warm" with one short drill set weekly.

Chapter 9 Results, Retakes & Appeals

9.1 Understanding Result Statuses

Your result is reported partwise and overall.

- Qualified (Part-I & Part-II): You have passed EPE; proceed to PE application.
- Qualified Part-I only: Part-I stands carried forward during the permitted retake window; you need to pass Part-II.
- Qualified Part-II only: Part-II stands carried forward during the permitted retake window; you need to pass Part-I
- **Not Qualified:** Did not meet the pass mark in one or both parts.
- **Absent/Cancelled:** Absent on the exam day or Present but paper cancelled due to conduct/ID issues.

Pass mark: Each part is passed **independently** (qualifying score required 60% in **each**).

Carry-forward rule (principle): A pass in one part remains valid within the allowed consecutive-exam window. If you do not clear the remaining part within that window, you will be required to re-appear in both parts in a future cycle.

9.2 Retake Planning (Keeping Your 3-Cycle Window Live)

Plan immediately after results:

- Identify whether you are re-appearing in **Part-I** or **Part-II** only.
- Map the next three consecutive exam cycles.

Between-cycle strategy (typical):

- Weeks 1–2: Post-mortem your error log; isolate topics/ outcomes causing most misses.
- Weeks 3–6: Focused drills on weak clusters (daily timed sets); rebuild formula sheets/index tabs (for Part-II openbook).
- Weeks 7–8: Two full simulations of the target part; close top 10 recurring errors.
- **Final 10–14 days:** Retrieval practice only; complete logistics and documentation.

Administrative checklist for a retake:

- Re-appearance application for the failed part only.
- Fee as prescribed for re-appearing candidates.
- Any updated **CPD/experience** evidence if the form requests re-submission.
- Fresh **roll number slip** and centre confirmation for the new sitting.

9.3 Appeals/Complaints & Grievance Pathway (Policy Overview)

If you believe an **administrative error** affected your result or if there was a **centre-conduct irregularity**, you may seek redress as permitted by current notices/guidelines.

How to proceed (general steps) for appeal

- 1. **Read the cycle notice**: note the **appeal window** (last date), required form, and channel (portal/email).
- 2. **Submit a written request** within the window of 30 days, include CNIC/PEC no., roll no., centre, paper/part, **specific evidence**, and prescribed fee (RNS copy, any hall ticket/incident note).
- 3. Await acknowledgement and keep all correspondence.
- 4. **Outcome** may include correction (if an administrative error is confirmed), or a reasoned decision per policy.

Note: Question content challenge or request for paper copies are governed strictly by policy; many regimes do **not** permit item-level disclosures. Always follow the published procedure.

9.4 PE Application Steps & Evidence Requirements

Objective: Convert your EPE success into **Professional Engineer (PE)** registration.

Preparation

- Keep your **RE registration** active.
- Secure your **EPE pass notification/ result**.
- Compile attested **experience evidence** (designations, duties, dates) aligned with your discipline.
- Prepare your **CPD record** (log + certificates) as per current byelaws.

Application (typical sequence)

- 1. **Access PE application** (Online portal/form) and complete personal/ discipline details.
- 2. **Attach evidence**: EPE pass, experience letters, CPD log/certificates, RE proof, CNIC, photos.
- 3. Pay fee as notified for PE processing/issuance.
- 4. **Respond to queries** (if scrutiny requests clarifications).
- 5. **Issuance**: On approval, receive **PE** registration credentials (certificate/card).
 - Follow any guidance on seal/stamp usage and professional practice limits.

Keep digital and hard copies of the full dossier; you will reuse portions for renewals and future credentials.

9.5 CPD After Qualifying EPE (Continuing Obligations)

Passing EPE is the start of lifelong CPD responsibilities.

- Maintain **annual CPD** in the categories recognized by the Council (courses, workshops, practice, teaching, publications, etc., within category caps).
- Record keeping: Update your CPD log after each activity; retain certificates/ attendance proofs and, where applicable, agendas or syllabi.
- Renewal alignment: Ensure your CPD totals meet the renewal threshold for maintaining PE status; verify current points and submission format each cycle for card renewal preferably after 03 years for lifetime subscribers.

Chapter 10

Final Preparation & Closing Guidance

This chapter is designed to transform your Engineering Practice Examination (EPE) preparation from a distant milestone into a structured, achievable plan. You now have the essentials — eligibility criteria, CPD pathways, application steps, discipline maps, exam-day guidance, and the route from EPE to Professional Engineer (PE) registration.

At this final stage, your success depends not only on knowledge but also on disciplined preparation, deliberate practice, and calm performance.

10.1 Plan with Precision

- Work backward from the exam date define milestones for syllabus completion, mock exams, and revision cycles.
- Establish weekly study targets and dedicate focused blocks for problem-solving.

 Keep a visible study calendar and track progress weekly.

10.2 Prepare with Intent

- Base preparation strictly on the published PEC syllabus and exam structure.
- Balance technical understanding with engineering ethics, professional practice, and safety responsibilities.
- Make every study hour purposeful connect effort to exam objectives and learning outcomes.

10.3 Practice under Realistic Conditions

- Attempt mock exams under real time constraints.
- Track accuracy, time management, and topic-wise confidence.
- Conduct post-test reviews ask: Why was this wrong? How can I avoid this next time?
- Integrate international good practices:

- Review sample questions from NCEES (USA) and Engineers Australia's Stage 2 Assessments to benchmark analytical depth.
- Focus on scenario-based reasoning rather than rote recall.
- Simulate test conditions quiet space, timed sessions, allowed materials only.

10.4 Perform with Professionalism

- Follow PEC's examination centre protocols and maintain ethical conduct.
- Apply systematic reasoning: Define → Analyse →
 Compute → Validate.
- Manage time calmly professionalism shows in precision under pressure.

10.5 Progress Beyond the Exam

- After the EPE, reflect on your performance record strengths and areas for improvement.
- Continue structured Continuous Professional Development (CPD) activities.
- Remember the EPE is not an end it is milestone towards life long professional growth.

10.6 Final Readiness Checklist — "Am I Exam-Ready?"

Category	Key Questions to Ask Yourself		
Knowledge	Have I covered the full PEC syllabus, including ethics and		
Coverage	professional conduct?		
Application	Have I completed at least 5–8 timed mock exams?		
Practice			
Weak Areas Review	Can I identify and explain my three weakest areas — and have		
	I revised them twice?		
Exam Familiarity	Do I understand question formats, allowed materials, and		
	marking schemes?		
Time Discipline	Can I complete a 3-hour paper with 15 minutes left for review?		

Professional	Am I confident about PEC's ethical obligations and behavioural
Conduct	standards?
Health & Mindset	Am I mentally focused, well-rested, and calm?
Administrative	Have I confirmed my exam centre, reporting time, and ID
Readiness	documents?
Continuous Growth	Do I have a post-exam learning or improvement plan?

10.7 Access to Curricula & Sample MCQs

To help you refine your preparation, PEC provides downloadable curricula and sample MCQs for all engineering disciplines. You can access them through the official link or scan the QR code below:

Download Link:

https://www.pec.org.pk/cpd/engineering-practice-examination/curricula-of-epe/

Or Scan the QR Code (see Appendix – C in the printed version).

10.8 The Professional Ethos

The EPE represents more than a test — it is a declaration of your commitment to integrity, competence, and service. As a future Professional Engineer, you are entrusted to safeguard society, steward resources responsibly, and uphold ethical standards in every decision.

The progress of Pakistan depends on engineers who lead with competence, ethics, and service.

We wish you disciplined preparation, calm execution, and every success on your journey to becoming a Professional Engineer.

Glossary

ALARP (As Low as Reasonably Practicable)

Risk reduced to a level where further reduction would be grossly disproportionate to the benefit gained.

Appeal / Grievance

Formal request to review an administrative/result matter within the window and route specified by the Council.

Breadth (Part-II)

The portion of the discipline paper aligned with core undergraduate curriculum topics.

Byelaws (PEC)

Council-approved rules that operationalize the PEC Act (e.g., CPD Byelaws), binding on registrants.

CAPA (Corrective and Preventive Action)

Structured response after an incident or non-conformance to remove causes and prevent recurrence.

Carry-Forward (Result)

Retention of a pass in one part of EPE within the permitted consecutive-exam window.

CNIC

Computerized National Identity Card (original required for entry to the exam hall).

COI (Conflict of Interest)

A situation where personal interest may improperly influence professional judgment; must be disclosed/managed or require recusal.

CPD (Continuing Professional Development)

Structured learning to maintain and enhance professional competence; 17 points since 10 July 2010 required for EPE eligibility (with category caps).

Depth (Part-II)

Specialized portion of the discipline paper testing advanced, practice-oriented knowledge in a chosen area.

EIA (Environmental Impact Assessment)

Formal process assessing significant environmental effects of proposed projects; includes screening, scoping, impact analysis, mitigation, and monitoring.

EIS / EMP

Environmental Impact Statement / Environmental Management Plan—outputs of the EIA process.

EPDC (Engineering Professional Development Committee)

PEC committee overseeing EPE policy, syllabi approval, and quality assurance.

EPE (Engineering Practice Examination)

Two-part national exam of professional competence: Part-I common (2 h, 40 MCQs) and Part-II discipline (3 h, 60 MCQs, open-book); 60% pass mark in each part.

Ethics (Professional)

Standards of conduct emphasizing public safety, integrity, fairness, confidentiality, and competence.

HAZID / HAZOP

Hazard Identification (early-stage brainstorming/checklists) / Hazard and Operability study (systematic, guideword-based analysis of process deviations).

HR Letters (Experience Evidence)

Employer attestations listing designation, duties, and dates, used to verify 5-year post-registration experience.

IEE (Initial Environmental Examination)

Screening-level environmental assessment for projects with lesser potential impacts.

Int.PE (Pak)

International-style professional recognition pathway (policy-dependent); typically requires PE, responsible experience, competence evidence, and CPD.

Invigilator

Authorized supervisor of examination conducts at the centre.

JSA (Job Safety Analysis)

Task-level hazard review linking steps, hazards, and controls.

MCQ (Multiple-Choice Question)

Objective item with one best answer; used in both parts of EPE.

NEQS (National Environmental Quality Standards)

Pakistan's pollutant/effluent limits and related environmental standards.

Non-Programmable Calculator

Simple calculator permitted in the hall; programmable/electronic devices are prohibited.

OMR (Optical Mark Recognition) Sheet

Answer sheet where responses are shaded; must follow marking instructions precisely.

Open-Book (Part-II)

Use of **books and bound copies** of standards/texts as permitted by the discipline syllabus; loose notes/electronics are not permitted.

Pak-EPA

Pakistan Environmental Protection Agency; federal regulator under environmental law.

PDCA (Plan-Do-Check-Act)

Continuous improvement cycle; also reflected in ISO-14001 EMS.

PE (Professional Engineer)

Registration granted by PEC upon meeting requirements including passing EPE; confers responsibility for independent practice, as prescribed in PEC ACT

PEC (Pakistan Engineering Council)

Statutory body regulating engineering profession, registration (RE/PE), standards, and examinations.

PEC Act (1976)

Foundational statute establishing PEC and its regulatory mandate.

Portal (Application)

Council's online interface or prescribed form route for EPE/PE applications and document uploads.

PPE (Personal Protective Equipment)

Last line of defence in the hierarchy of controls (after elimination, substitution, engineering, and administrative controls).

PTW (Permit-to-Work)

Formal authorization to control high-risk activities (confined space, hot work, energized systems).

QA / QC (Quality Assurance / Quality Control)

QA: process-oriented systems to assure quality; QC: product-focused inspection/testing.

RE (Registered Engineer)

Initial registration category; EPE eligibility requires **five** years of relevant post-registration experience plus CPD.

Retake Window

Up to **three consecutive examinations** to pass the remaining part; expiry requires re-appearing in **both** parts.

RNS (Roll Number Slip)

Official document stating candidate details, discipline, centre, seat, and timings; mandatory for entry.

SCADA

Supervisory Control and Data Acquisition; commonly referenced in Electrical Depth topics.

Syllabi (EPE)

Official discipline PDFs specifying Breadth and Depth topics, format, and open-book norms; primary preparation reference.

Timetable (Exam Day)

Standard sequence: reporting \geq 60 minutes before 1000 hours start \rightarrow Part-I (2 h) \rightarrow 90-minute break \rightarrow Part-II (3 h).

Washington Accord / IPEA

International frameworks for engineering education and professional competence; inform PEC's alignment and mobility pathways.

Work-Based Learning (CPD Category)

On-the-job professional practice qualifying for CPD within defined caps per byelaws.

Zero-Tolerance (Misconduct)

Policy stance against cheating, unauthorized materials, impersonation, or staff influence; may lead to cancellation/disqualification.

S.#	PEC Registered Engineering Disciplines	Column3	Professional Areas of Practice/ Specialization
	Civil Engineering and Allied Disciplines (Civil/ Transportation/ Urban/ Environment/		
1	Building & Architecture)	1	Structures
		2	Transportation
		3	Geotechnical
		4	Construction Management
		5	Water Resources
		6	Environmental Engineering
		7	Urban Engineering
		8	Building and Architectural Engineering
	Electrical Engineering and Allied Disciplines (Electrical/ Electronics/ Industrial Electronics/		
2	Telecommunication/ Engineering Sciences)	1	Electric Power
		2	Electronic Engineering
		3	Industrial Electronics

Appendix – A

S.#	PEC Registered Engineering Disciplines	Column3	Professional Areas of Practice/ Specialization
	· · · · · · · · · · · · · · · · · ·		Telecommunication Engineering
	Mechanical Engineering and Allied Disciplines (Mechanical/ Industrial and Manufacturing/		Ŭ Ŭ
3	Automotive)	1	Thermo-fluids Engineering
		2	Manufacturing Engineering
		3	Design Engineering
		4	Control Engineering
		5	Automotive Engineering
		6	HVAC & Refrigeration
	Metallurgy and Materials Engineering (Metallurgical Engineering/ Metallurgy and		
4	Materials Engineering)	1	Metallurgical Engineering
		2	Foundry Engineering
		3	Advanced Materials
		4	Surface Engineering
		5	Nanotechnology

Appendix - A

S.#	PEC Registered Engineering Disciplines	Column3	Professional Areas of Practice/ Specialization
	Chemical & Polymer Engineering		
_	(Chemical Engineering/ Polymer		
5	Engineering)	1	Process Synthesis, design, and Optimization
		2	Operation and Production Engineering
		3	Utilities and Services Engineering
		4	Environment and Process Safety Engineering
		5	Instrumentation and Control Engineering
		6	Thermal Hydraulics
		7	Polymer Engineering
		8	Biochemical Engineering
		9	Energy Engineering
		10	Separation Process Engineering
		11	Corrosion Engineering
6	Mining Engineering	1	Query/ Open Pit Development and Operation
			Underground Mining Operation and
		2	Development

Appendix – A

S.# PEC Registered Engineering Disciplines	Column3	Professional Areas of Practice/ Specialization
	3	Mine Rescue and Safety Engineering
	4	Mine Management and Regulatory Regime
7 Agricultural Engineering	1	Environmental Engineering
	2	Machine Systems Engineering
	3	Irrigation and Drainage Engineering
	4	Water Resources Development and Management
	5	Process Engineering
	6	Energy in Agriculture
8 Textile Engineering	1	Yarn Manufacturing
	2	Fabric Manufacturing
	3	Textile Processing
	4	Garment Manufacturing
9 Petroleum and Gas Engineering	1	Drilling Engineering
	2	Reservoir Engineering
	3	Production Engineering

Appendix - A

S.#	PEC Registered Engineering Disciplines	Column3	Professional Areas of Practice/ Specialization
10	Geological Engineering	1	Geotechnics And Rock Engineering
		2	Natural Energy Resources Exploration
		3	Geo-environmental Engineering
	Aeronautical Engineering (Avionics/		
11	Aerospace)	1	Avionics Engineering
		2	Aerospace Engineering
12	Computer Engineering	1	Computer Systems Engineering
		2	Software Engineering
13	Biomedical engineering		Biomedical engineering
14	Geoinformatics Engineering		Geoinformatics Engineering
15	Food Engineering		Food Engineering
16	Energy Engineering		Energy Engineering
17	Mechatronics Engineering		Mechatronics Engineering
18	Ocean Engineering		Ocean Engineering

CATEGORIES OF CPD

Category	Applicable CPD program	Duration Credit Hrs.	Credit Points	Remarks
(1)	(2)	(3)	(4)	(5)
Category-a	Post-graduate		2	(Above 6 and below 9 months
Formal	Diploma (PGD)			duration)
Education	• , ,		4	(9 to 12 months duration)
(Higher				
Education duly			4	(Course work only)
recognized by	2. Award of		6	(Course work plus research
PEC/HEC)	Post-graduate			work)
	Degree in			All achievements must be
Limit of	Engineering and			supported with records and
category-a	related subjects		4.0	certificates.
= 4 credit	like IT, Finance,		12	
points/year	Management,			
	Law, Economics			
	etc.			
	3. Award of			
	Doctorate (Ph.D.)			
	in Engineering			
Category-b	Work Experience	400	1	
Work-based	(Engineering	100		
Activities.	related work			
	including relevant			
Limit of	aspects of			
category-b	Management)			
= 2 credit	,			
points/year				

Appendix - B

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Category-c	1.Participation in		1	
Development	Training &			
al Activities	Development	00	0.5	
Line in the	Programs	02	0.5	
Limit of	0.5		0.5	
category-c	2. Participation	02	0.5	
= 3 credit	in Conference		0.5	
points/year	0.5	02	0.5	
	3. Participation			
	in Seminar	One day	1	
	45			
	4. Participation	One day	1	
	in Lectures			
	5. Participation			
	in Workshop			
	0.5 ()			
	6. Refresher			
	Course/Short			
	Course			
Category-d	1. Membership of		1	National bodies
Individual	a recognized		2	International bodies
Activities	professional			(Limit of memberships = 2 to
	Association/body			be accounted for valid
Limit of				members annually)
category-d				
= 3 credit			1.5	Lectures excluding routine
points/year			1.0	teaching at institutions and
	0.7			universities.
	2. Invited Lecturer			
			0.5	
			0.0	
	3. Symposium		1.5	
	panellist			National
				(HEC/PEC approved).
	4 337 1.1		3	`
	4. Writing and			
	publishing a			

Appendix - B

	search		International (Publication
	rticle in		after a peer review).
	ournals/		
	echnical	0.5	Only comprehensive
K	eport	0.5 1.5	engineering works/reports.
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5. Wr			B 6 : 1 : 1 : 1
	ference		Professional contribution in such activities.
Pap	er	1	such activities.
		'	
6. Au	thoring a		Active participation
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	cial work		
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	chnical, or		
	n-technical		
CO	mmittees		
Q Ma	naging		
	mical event		

Curricula and sample MCQS of EPE

Visit the link to download:

https://www.pec.org.pk/cpd/engineering-practice-examination/curricula-of-epe/

Or

Scan the QR code.



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