Why obtain your PE License? *

• Jobs
  Employers value engineers who, by becoming licensed, show a commitment to the future.

• Promotions
  Many employers in industry and government require licensure in order to advance to senior engineering positions.

• Money
  According to studies, P.E.s enjoy higher pay throughout their career.

• Credibility
  In most states, only P.E.s can consult in private practice or serve as expert witnesses in court.

• Respect
  P.E.s gain the respect of peers within the engineering community, where the desire to excel runs high.

• Security
  As laws change and international agreements concerning the requirement to be licensed are adopted, a P.E. license may become even more of a necessity.

* Reference:  P.E. Licensure: Jobs, Promotions, Respect & More (NCEES Brochure)
The Process for Getting Your PE License? *

1. Graduate with an Engineering Degree
   • *B.S. degree in Engineering or Engineering Technology*
   • *ABET-accredited program*

2. Pass the Fundamentals of Engineering (FE) Examination
   • *Formerly called the Engineer-In-Training (EIT) exam*
   • *Can be taken during senior year or later*
   • *Never expires/No fee to maintain*

3. Engineering Experience
   • *4 years experience required with BS in Engineering*
   • *6 years experience required with BS in Engineering Technology*
   • *Up to 2 years of graduate school may apply*
   • *Experience may be before or after FE exam and/or degree*
   • *Experience must be verified and approved*

4. Pass the Principles & Practices (PE) Examination
   • *This review course is designed to help you with this last step.*

* The steps listed are the most common, but may vary by state. Other options may also be available for applicants with extensive experience.
PE-Electrical

Textbooks


Practice Problems for the Electrical and Computer PE Exam, 6th Edition. Edited by John A. Camara, PE

NCEES PE Electrical and Computer Engineering Sample Questions and Solutions. NCEES publication.

Six-Minute Solutions for Electrical and Computer PE Exam Problems. Edited by John A. Camara, PE

Quick Reference for the Electrical and Computer PE Exam, 2nd Edition. Edited by John A. Camara, PE

Errata. Errata sheets are available for each text at www.ppi2pass.com
The electrical and computer engineering examination is a breadth and depth examination. This means that all examinees work the breadth (AM) exam and one of the three depth (PM) exams. The breadth exam contains questions from the general field of electrical and computer engineering. The depth exams focus more closely on a single area of practice in electrical and computer engineering. The three depth examinations are
1) Computers
2) Electronics, Controls and Communications
3) Power.

Electrical Codes and Standards Used on P.E. Exams — Exam questions related to codes and standards will be either (1) an interpretation of a code or standard that is presented in the exam booklet or (2) a code or standard that a committee of licensed engineers feels that minimally competent engineers should know. Code information required to solve questions will be consistent with the last edition of the code issued before the year of the exam. For example, the exams given in 2002 (April and October) will reference the 1999 National Electric Code (NEC), even though the 2002 NEC has been issued by the date of the exams. Exams given in 2003 will then be based on the 2002 NEC.

See NCEES for a detailed breakdown of problem categories for the breadth exam (AM) and each of the three depth exams (PM). Also see review text (pp. xviii).
New Pencil Policy for the Engineering Licensing Exams

With the April 2002 exam administration, NCEES will supply mechanical pencils to examinees at all test sites. Only these supplied pencils may be used during the exam; no other writing devices will be allowed.

Each supplied pencil will come with several pieces of .7mm lead and an eraser. Note that you may also bring your own eraser for use during the exam -- and previous examinees strongly encourage this.

According to NCEES, recommendations from an examination-security study convinced the Council Board to provide mechanical pencils in order to prevent the use of small wand-like scanning devices during examinations.

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Exam materials (What should you bring into the exam?)
• Check for allowable reference/solution manuals in your state
• Bringing familiar textbooks is best
• See list in review text

Calculators
In general, programmable calculators are permitted. Some guidelines:
• No devices capable of word processing
• No printers
• Calculators must be silent
• Bring a spare calculator
Internet sites

NCEES - National Council of Examiners for Engineering and Surveying
• Website: www.ncees.org
• NCEES writes the FE and PE exams
• The website contains exam information, passing rates, and other useful information.

Virginia Department of Professional & Occupational Regulation
• Website: http://www.state.va.us/dpor/indexne.html
• The website contains online applications, passing rates, exam dates, etc.
  (Be sure to click on the Dimensions newsletter.)

Professional Publications, Inc.
• Website: http://www.ppi2pass.com/
• The website contains study materials, test-taking tips, passing rates, etc.

National Society of Professional Engineers (NSPE)
• Website: http://www.nspe.org/ (then select LICENSURE)
• The website contains many materials which promote licensure.

IEEE Licensure and Registration Committee
• Website: http://www.ieeeusa.org/committees/LRC/index.html
• The website contains a nice PowerPoint presentation on the new format for the PE-Electrical exam and another presentation on the process of becoming licensed.