

BECOMING A PROFESSIONAL ENGINEER

Florida Board of Professional Engineers



Why become a licensed Professional Engineer?

- Allows you to call yourself a Professional Engineer, or PE
- Demonstrates that you have technical competency in your area of practice
- Gives you authority to sign and seal engineering plans and drawings
- Allows you to qualify an engineering company
- Allows you to practice engineering under your own name
- Enhances your career options; sets you apart during hiring
- Boosts income; can put you on a faster track to management
- Allows you to act as an expert witness and consultant



About FBPE & FEMC

- Florida Board of Professional Engineers
 - Regulatory Board
 - Created in 1917 by the Florida Legislature
 - 11 Board members: 9 are licensed PEs; 2 are laypersons; all appointed by the Governor
 - Over 43,000 active licensed engineers in Florida
- Florida Engineers Management Corporation
 - Established in 1998 by Legislature (Section 471.038, Florida Statutes)
 - Non-profit, single-purpose corporation contracted with the Department of Business and Professional Regulation
 - 7-member corporate board of directors: 5 appointed by FBPE; 2 laypersons appointed by DBPR



What is the Florida Board of Professional Engineers?

"Committed to protecting the interest of public health and safety by properly regulating the practice of engineering."

- Makes rules for the profession of engineering
- Reviews applications for licensure
- Takes disciplinary actions against engineers
- Meets 6 times a year in designated locations around Florida
- All Board meetings are open to the public



What is the Florida Engineers Management Corporation?

- Issues licenses to those certified by FBPE as qualified to practice engineering
- Provides administrative services to FBPE
- Provides investigative and prosecutorial services for disciplinary actions by FBPE
- Promotes engineering licensure by outreach to prospective engineers and information to the public



What is NCEES?

- The National Council of Examiners for Engineering and Surveying
- National, nonprofit organization dedicated to advancing professional licensure for engineers and surveyors
- Develops, administers, and scores the examinations used for engineering and surveying licensure in the United States
- Provides central licensure recordkeeping for engineers
- Provides credentials evaluations



The path to licensure: The 3 E's

- Education — Degree from an EAC/ABET-accredited engineering, an ETAC/ABET-accredited engineering technology program, or its equivalent
- Exams — Fundamentals of Engineering, and Principles & Practice of Engineering
- Experience — Must earn engineering experience that is progressive in nature under the supervision of a licensed Professional Engineer



Fundamentals of Engineering (FE) exam

- Developed and administered by NCEES
- Focuses on academics, not the practice of engineering
- 7 discipline-specific exams, based on math, science, and engineering coursework
- 6-hour, computer-based test
- Given at Pearson VUE Centers six days a week, in exam windows year-round
- Results in about a week



FE exam registration

- Register and schedule directly with NCEES
 - Costs \$175 (exam fee)
- Engineer Intern (EI) certificate in Florida
 - Pass FE exam
 - Hold ABET-accredited bachelor's degree in engineering or engineering technology
 - Submit Application for EI Certification to FBPE
 - Costs \$100



FE exam tips

- Visit NCEES.org and carefully read all material about the FE exam
- Have a valid I.D. and NCEES-approved calculator when going to take the exam
- Take exam around your senior year or just after a graduation

*Remember: The FE exam is based on coursework.
You want to take it while that information is still fresh in your mind.*



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Principles & Practice of Engineering (PE) exam

- Developed and administered by NCEES
- Discipline-specific exam, based on the practice of engineering
- 8-hour, computer-based exam
- Most exams are given in year-round exam windows, but some are single-day
- CBT coming by 2024: PE Structural (a two-day/16-hour exam)
- Eligibility varies by state/territory



PE exam registration

- Must have passed the FE exam
- No engineering experience required
 - Though NCEES statistics show that first-time examinees are more likely to pass the exam after two years of engineering experience
- Register and schedule directly with NCEES
 - \$375 for exam
 - \$500 for two-day structural exam



PE exam tips

- Visit NCEES.org and carefully read all material about the PE exam
- Have a valid I.D. and approved calculator when going to take the exam
- Know which discipline-specific exam to take

The PE exam is based on experience.

*You want to take it based on
the field of engineering you have been working in,
not necessarily in the field you majored in.*



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PE licensure in Florida

- Must be 18 years of age in Florida
- Submit an *Application for Licensure as PE* and \$230 fee to FBPE
- Florida does not license by discipline
 - Must be competent in the fields in which you practice
 - Can be restricted by the Board from practicing in certain fields
 - Can be required by the Board to take a PE exam in another field
- Florida restricts use of “professional engineer” and similar titles to licensed professionals (Chapter 471.031(1)(b)1., Florida Statutes)
 - Restricted titles include “architectural engineer,” “building engineer,” “plumbing engineer,” “software engineer,” “systems engineer,” “transportation engineer,” etc.
- Must be licensed in each state where you practice engineering



Experience required for PE licensure in Florida

- When applying for licensure as a Professional Engineer, you must have:
 - 48 months of experience for graduates with Board-approved engineering degrees
 - 72 months of experience for graduates with Board-approved engineering technology degrees
- Experience must be:
 - Under the supervision of a Professional Engineer
 - Progressive in nature, assuming more responsibility
 - Engineering experience (not construction, management, etc.)
- Keep a log of your experience
 - Who you worked for
 - Who your supervising PEs were
 - Contact information for supervisors
 - Types of jobs you worked on, descriptions of duties



Exceptions to experience

- Undergraduate internship
 - In last two years of bachelor's program
 - Must be full time
 - Counts at 50 percent
- Earning a master's degree or a doctorate in engineering
 - Reduces experience required by a maximum of 12 months each
 - No double-dipping (can't also count work experience during that time)

Maintaining your PE license

- Keep your contact information up to date so that FBPE can contact you
- Renew your license every 2 years
- 18 hours of continuing education every 2 years, including:
 - 1 hour of Florida laws and rules of professional engineering
 - 1 hour of professional ethics
 - 4 hours in area of practice
 - 12 hours on any topic pertaining to the practice of engineering
- Use NCEES CPC Tracking to record your continuing education credits and keep tabs on multiple state requirements



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Use NCEES Records

- Create an account at NCEES.org, allowing you to record and track:
 - Official college transcripts
 - Exam results
 - Engineering experience (which is reviewed and verified by NCEES)
 - Licensure verifications
 - Licensure renewals from state to state
- No charge to set up or maintain a NCEES Records account
 - \$100 for first transmittal of licensure information to a state licensing board
 - \$75 for all subsequent transmittals
- Continuing Professional Competency (CPC) Tracking
 - No charge for CPC Tracking
 - Record your continuing education courses
 - Monitor CE requirements across multiple states



Mobility of licensure

- Each state has its own regulations regarding licensure
- Florida offers endorsement applications for those licensed in other states
- FE/PE exams are national exams
 - NCEES develops and administers the exams
 - Consistent from state to state
 - Accepted in all states
- NCEES Records program can help with multi-state licensure
 - Free to set up; charges to transmit records
 - 7-10 days to get a license vs. 30 days for traditional paperwork



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Student Resources

Online at:

fbpe.org/student-resources/

Quick links to useful info:

- Why you should become a licensed Professional Engineer
- The steps in the licensure process
- How 2019 statute changes made it easier to earn your license
- NCEES exam specifications, exam guide, and reference handbook
- FBPE's *Connection* newsletters and how to subscribe
- Facebook and LinkedIn
- PDF of this presentation

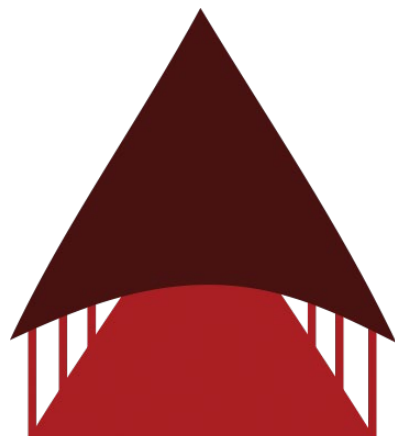


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Do you have any questions?





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PROFESSIONAL ENGINEERS

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