FE Exam Information Session

Gary Clark, PhD, PE
Senior Associate Dean

Kansas State University | College of Engineering
FE Exam Informational Topics

• What is the FE Exam and why should I take it?
• Where can I learn more about the FE Exam?
• Content of the Exam / Exam Disciplines
• Duration of the Exam
• Registering for the Exam and cost
• Test Center Locations and Dates
• Exam Day Experiences
• FE Prep and Reference materials
• Practice Exams
• Exam Reporting
What is the FE Exam and why should I take it?

• The Fundamentals of Engineering (FE) exam is typically the first step in the process leading to the P.E. license.

• It is designed for recent graduates and students who are close to finishing an undergraduate engineering degree.

• The FE is a computer-based exam that is administered year-round in testing windows at NCEES-approved Pearson VUE test centers.

FE Exam - Just Do It
Where can I learn more about the FE Exam?

• Go to [www.nceees.org](http://www.nceees.org) -> Engineering
NCEES engineering exam registration

In the United States, engineers are licensed at the state level by professional licensing boards. Engineering boards confer the PE license when licensure candidates meet a combination of requirements in education, experience, and exams. Before registering for an upcoming NCEES exam, review your unique approval and registration process by selecting your state, territory, or foreign entity from the map or drop-down list below.

Registration for the pencil-and-paper October 2017 PE and SE exams is currently open and will close at 3:00 p.m. EDT on August 31, 2017. Registration for the computer-based PE and SE exams is open year-round. To learn about the format of an your exam, select the exam type below.

Cost is $225
Learn about the exams

NCEES develops and scores the PE, SE, and PE exams for engineering licensure. The PE exam is generally your first step in the process to becoming a professional licensed engineer (PE). It is designed for recent graduates and students who are close to finishing an undergraduate engineering degree from an ABET/EAC accredited program. The PE and SE exams test your ability to practice the engineering profession competently. It is designed for engineers who have gained at least four years of professional experience.

Select an exam from the field below to learn more about how passing your exam can help you advance in your path to licensure.

select an exam

Exam prep materials

We at NCEES believe that nothing prepares you better than working through actual exam questions. So that’s what we provide. Our exam prep materials include questions that have been used on past exams and questions written just to give you extra practice.

exam prep materials

CPC Tracking
Engineering Award
Speaker’s Link
Credential Evals
Content of the Exam / Exam Disciplines

• The FE is offered in seven disciplines.
  – FE Chemical
  – FE Civil
  – FE Electrical and Computer
  – FE Environmental
  – FE Industrial
  – FE Mechanical
  – FE Other Disciplines
Duration of the Exam

• The FE contains 110 multiple-choice questions.
• The exam appointment time is 6 hours long
  – Includes a nondisclosure agreement,
  – Tutorial (8 minutes),
  – The exam (5 hours and 20 minutes),
  – A scheduled break (25 minutes), and
  – A brief survey.
New in 2017

Alternative items types

CBT exams include traditional multiple-choice questions as well as alternative item types (AITs). AITs include but are not limited to the following:

- Multiple correct—allows examinees to select multiple answers
- Point and click—requires examinees to click on part of a graphic to answer
- Drag and drop—requires examinees to click on and drag items to match, sort, rank, or label
- Fill in the blank—provides a space for examinees to enter a response to the question

AITs are incorporated into the practice exams for CBT exams. You can also review the general format of AITs in the Pearson VUE computer-based testing demo.

Alternative item types provide opportunities to assess the technical knowledge of examinees using methods not available through paper-based testing.

Learn more about CBT

CBT exam-day experience
Exam prep materials
Test center locations
NCEES Examinee Guide
Exam schedules
Test Center Locations

Year-Round Testing Opportunities.
Reference materials and exam prep

The NCEES FE Reference Handbook is the only reference material that can be used during the exam. You will be provided with an electronic reference handbook during the exam. For access prior to your exam, you may either purchase a hard copy or download a free electronic copy.

**LEARN TO USE THIS**

---

The NCEES practice exams now come in paperback print copies. Online practice exams are no longer available. If you have already purchased an online practice exam, you will have access to the exam until the exam is completed or until your purchased time expires.

Learn more about NCEES exam prep materials.

---

Scoring and reporting

FE exam results are typically available 7–10 days after you take the exam. You will receive an email notification from NCEES with instructions to view your results in your MyNCEES account. Results include information specific to your licensing board regarding how you should proceed based on your performance.

Learn more about the engineering exam scoring process.

---

Pass rates

The pass rates below represent January/February/March and April/May/June 2016 FE examinees who

- Took the FE exam for the first time
- Attended EAC/ABET-accredited engineering programs

**KSU 85% to 90%**
Exam Day Experiences

Explore the computer-based exam experience
NCEES Media - 8 videos - 446,818 views - Last updated on Jul 13, 2017
NCEES has provided a video series that introduces examinees to the exam-day experience for the new computer-based Fundamentals of Engineering and Fundamentals of Surveying exams.

1. Pearson VUE exam-day experience
   by NCEES Media
   4:36

2. How to search the onscreen NCEES reference handbook
   by NCEES Media
   0:32

3. Pearson VUE reusable booklet
   by NCEES Media
   0:28

4. How to flag items for review
   by NCEES Media
   0:31

5. Onscreen calculator for computer-based exams
   by NCEES Media
   0:25

6. Computer-based testing hotkeys
   by NCEES Media
   0:30

7. Managing your time on exam day
   by NCEES Media
   0:50

8. Alternative Item Types
   by NCEES Media
   1:23
Exam Day Experiences

• What may I bring into the exam room?
  – The ID used during the admission process
  – A calculator that complies with the current NCEES Calculator Policy
  – Key to your test center locker
  – Reusable booklet supplied by Pearson VUE
  – Eyeglasses (without the case)
  – Light sweater or jacket
  – Items included in the Pearson VUE Comfort Aid List
FE Prep and Reference materials

• Practice Exams ($49.95) → ($29.95)
  – Consists of questions from past exams and provides extra practice.

• Sample Questions: See Online Booklet

• FE Reference Handbook
  – Can be purchased or is Free as a Download
    • Create a MyNCEES Account and download your free copy
  – A searchable, electronic copy will be displayed on the monitor during the exam
Scoring and reporting

• FE exam results are typically available 7–10 days after you take the exam.
• You will receive an email notification from NCEES with instructions to view your results in your MyNCEES account.
FE Exam and Professional Licensure

Professional Engineer (PE) licensure is the engineering profession’s highest standard of competence, a symbol of achievement and assurance of quality. Just as the CPA defines the accountant, and a law license defines the lawyer, the PE license tells the public that you have mastered the critical elements of your profession. It demonstrates your commitment to the highest standards of engineering practice. It also provides proof of your ability to offer engineering services directly to the public - something only a licensed PE can do. As a licensed PE, many other doors will be open and available to you.

Taking and passing the Fundamentals of Engineering (FE) exam is one of the first steps toward PE licensure.

Fundamentals of Engineering (FE)

The FE Exam is entirely computer based and only available through NCEES-approved Pearson VUE test centers. K-State has an approved test center in Holtom hall but applicants must register for the exam via the NCEES website (www.ncees.org). Learn more about the exam, exam registration, content, practice tests and more on the NCEES website.

Helpful Resources

- NCEES FE Website
- FE Exam Information Session presentation by Senior Associate Dean Gary Clark, PhD, PE
- FE Review Videos
  These FE review video recordings are for use by Kansas State University College of Engineering students. While the format of the FE exam has changed, the basic content of most of the subject matter areas has not changed and the videos are still relevant.
- FE Review - Basic Circuits presentation by Dr. William Hageman

Additional information about official sites are stated below with their links.

NCEES: National Council of Examiners for Engineering and Surveying is a national nonprofit organization dedicated to advancing professional licensure for engineers and surveyors. It develops, administers and scores the...
Task List

• Go to the NCEES Website and create your MyNCEES Account
• Download your FREE copy of the Reference Manual
  – Become very familiar with this manual
• Review the discipline specific exam contents
• Review the sample questions on the COE FE website
• Purchase and use a practice exam
• Identify friends to study with and pick 1 or 2 topics per week to review. Plan a common exam date.
• Use the discipline specific review guides in the FLC
Questions?

Please also consider joining the Order of the Engineer