



United States Engineering Licensure: A Path of Opportunity

Offered in Egypt by the
NATIONAL COUNCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING
IN THE UNITED STATES

in collaboration with

AUC'S ENGINEERING AND SCIENCE SERVICES

What is Licensure?

Licensure is a recognized authorization to practice a particular profession. Doctors, accountants, lawyers and engineers are examples. Licensure of engineers in the United States provides assurance that an individual is competent to practice in a particular field. It is a license that is nationally recognized in the United States and legally required in order to work as an engineering consultant or offer engineering services to the public. The U.S. engineering license is also recognized in various parts of the world. Many international employers and U.S. government agencies require licensure for advancement to senior engineering positions. Recently, engineers in Japan were given the opportunity to receive U.S. engineering licensure. Now, Egypt is the second country outside the United States of America, after Japan, in which engineers can benefit from U.S. licensure.

Steps for Achieving U.S. Engineering Licensure

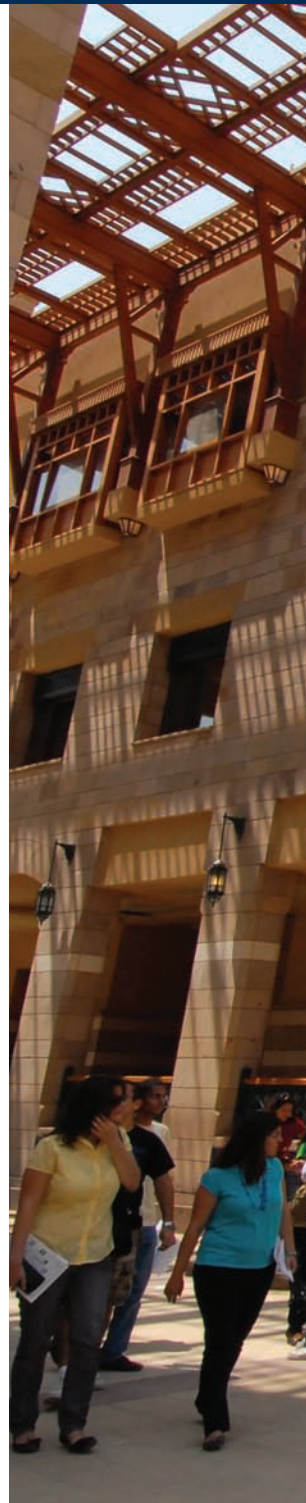
The following four steps are required to become a licensed professional engineer (PE):

1. Graduation from an engineering program that is accredited by the Accreditation Board for Engineering and Technology (ABET) or an Egyptian engineering program recognized by the Supreme Council of Universities
2. Passing the Fundamentals of Engineering (FE) exam. It is recommended that this exam be taken during the final year as an engineering student or soon after graduation. On passing the exam, a candidate is designated Engineer in Training (EIT) or Engineering Intern (EI)
3. Four years of progressive engineering experience as EIT/EI
4. Passing the Principles and Practice of Engineering (PE) exam

After satisfactory completion of the four steps above, an individual will be recognized as a professional engineer (PE) in the United States and other parts of the world, as well as by many international employers.

U.S. Engineering Licensure in Egypt

The National Council of Examiners for Engineering and Surveying (NCEES) is responsible for developing and administering the licensing process in the United States and other parts of the world. In Egypt, AUC's Engineering and Science Services unit helps individuals become licensed professional engineers (PE) by offering orientation sessions, preparation courses, reference material and practice exams. It also provides administrative support for exam registration, vetting of credentials and delivering exam results.





U.S. Engineering Licensure: Examinations

Fundamentals of Engineering Exam:

The FE exam is an eight-hour, closed-book exam divided into a morning and afternoon session. The pass rate for the exam in the United States has typically been 75 percent or greater. Those who take the exam in their final year as engineering students have a higher pass rate than those who take the exam one or two years after graduation. Examinees use a reference handbook supplied by NCEES to assist them. Only the handbook and approved calculators are allowed in the examination room. Upon registering for the exam, candidates receive a sample reference handbook, preparation courses and practice exams.

Morning session: There are 120 multiple-choice problems covering the first two years (freshman and sophomore years) of an engineering program. The problems are common to all engineering disciplines. This session covers the following four areas: basic science, mathematics, engineering science and ethics.

Afternoon session: There are 60 multiple-choice questions in the afternoon session. The questions primarily cover the last two years (junior and senior years) of an engineering program in the specific disciplines of chemical, civil, electrical, environmental, industrial and mechanical engineering. Examinees may choose to be tested in one of these disciplines or they can take the general examination.

Principles and Practices of Engineering (PE) Exam:

The PE exam is also an eight-hour exam divided into a morning and afternoon session. The PE exam is practice-oriented, as opposed to the academically oriented Fundamentals of Engineering exam. It is offered in two formats: no choice, and breadth and depth. In the no choice exam, everyone is examined on the same set of questions on any one discipline. The exam covers agricultural, architectural, chemical, environmental, industrial, metallurgical, mining and mineral engineering, as well as control systems, fire protection, marine and naval architecture, nuclear, petroleum and structural engineering.

The breadth and depth is like the Fundamentals of Engineering exam. There is a common morning session for everyone, but in the afternoon session, the examinee chooses from a number of different discipline modules. These include civil (environmental, geotechnical, structural, transportation and water resources), mechanical (HVAC and refrigeration, machine design, and thermal and fluid systems), as well as electrical and computer engineering (computers, power and electronics, controls and communications).

Registration, Fees and Deadlines for Examinations

NCEES will be performing the functions of engineering licensure in Egypt. AUC will assist in the licensure process by registering the candidates and administering preparation courses for the exams.

The total fees for the Fundamentals of Engineering exam are \$500 or its equivalent in Egyptian pounds. The fees cover registration for the exam and vetting of credentials, participation in preparation courses and practice exams, receiving reference material, sitting for the exam and receiving exam results.

June 4, 2009 is the deadline for registration for the October 2009 Fundamentals of Engineering exam at AUC. Preparation courses will be organized from June to October 2009. The FE exam will be held on October 24, 2009.

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