

Irvine Institute of Technology (IIT)
Professional Engineering Development Publications (PEDP)
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PE (Electrical) Power License Seminars

Background:

IIT has been providing Professional Engineering (PE) License Review Seminars for many engineering disciplines since 1973. IIT has its roots in California State University, Long Beach, where outstanding practitioners and scholars were recruited to offer seminars; to this day, IIT's team of selected professors is comprised of not only experts in the field, but also expert practitioners. Over 30 volumes of license manuals have been developed and published by Professional Engineering Development Publications (PEDP) to support IIT's seminars. Each volume contains succinct theory, example problems illustrating theoretical concepts, and past PE exam problems with solutions. These practice orientated problems are not usually discussed in textbooks used by universities. The solutions were developed by IIT's instructors who are experienced practitioners and scholars.

Changes to PE Licensing Examinations:

When IIT was first established in 2002, most licensing programs were under the direction of each state. The examination problems used to cover not only engineering fundamentals but also problems of a practical nature. The exams were comprehensive, with eight hour-long examination problems. Examinees had to choose four out of ten problems to complete in the morning and another four problems in the afternoon. These examinations were graded by an examination team and then the results were published.

Since the early 1990's, the licensing examinations given by each state have slowly been taken over by NCEES. The examinations have become multiple choice type and are now conducted at national level. IIT stopped offering PEEE, PEME, and SE seminars after they became national multiple choice exams. Now the educational technology has changed over the past ten years. We offer live programs from IIT, over the internet across the country. We also archive the lectures so students can go back and review the sessions again if need be. We also offer a 'Pass' guarantee so that the student will pass the exam the first time one takes it. Otherwise we offer free access to archives for the next 12 months.

The 'topical content' of each license exam has been greatly enlarged. Examinees now answer 80 multiple choice questions (40 in the morning and 40 in the afternoon). The NCEES website (www.ncees.com) provides many exam details, syllabi, etc., and the NCEES publishes a sample examination booklet showing a detailed syllabus and typical problems.

IIT requires all students enrolled to order the NCEES Sample Problems and Solutions on PEEE directly from the NCEES website. Examination questions will refer to various codes and specifications, which are specified in 'Design Standards'. Examinees are expected to become familiar with these publications and standards and to take them to the examination site when taking the exam.

PE License Seminars offered by IIT:

The following programs are via webcast nationwide and worldwide.

- PE (Civil)
- PE (Electrical) Power
- PE (Electrical) Computer
- PE (Electrical) Electrical Engineering and Electronics
- PE (Environmental)
- PE (Mechanical)
- Fundamentals of Engineering (FE/EIT)
- SE - Structural Engineering (16 hour) Exam new format
- PE (Civil) - Seismic Principles and
- PE (Civil) - Engineering Surveying.
- Contracts and Law for Engineers & Architects

Classes are held on weekends, or weekday evenings. Weekend classes are from 9:00 am to 4:00 pm, with two fifteen minute coffee breaks – one at 10:30am and one at 2:30pm—and an hour-long lunch. Weekday evenings classes are from 6:30 to 9:30 PM with a fifteen break at 8:00pm.

Students can attend seminars either live on-site at our location in Irvine or live off-site on any computer with Internet Access. Webcasts include not only the audio but also the video of the instructor lecturing on the topic. There is also a chat box where you can send some questions. This method of teaching enables students anywhere in the world to benefit from our programs. A sample webcast is shown on our website at www.irvine-institute.org. Using our sophisticated system, live off-site students are able to send questions to instructors, who will review them during break periods. Students can also access archived programs 24/7 from any computer with high speed internet, allowing those who attend live IIT seminars to review archives for further clarification. This ensures a better opportunity to learn the subject well and pass the exams.

PE (Electrical) Power License Seminar:

The fee for the 30 hour seminar is \$595.00. The classes are on Tuesday evenings from 6:30 to 9:30pm.

The required textbooks for the seminar are

1. PEDP PE (Electrical) License Manual Volume 1 - \$89.95 - Required
2. PEDP PE (Electrical) License Manual Volume 2 – Section 6 - \$39.95 – Required
3. PE (Electrical) Power Sample Questions and Solutions by NCEES - Required - order directly from www.ncess.org
4. Engineering Economics is a general subject and there could be 3-4 problems. For those who need a refresher, it is recommended to access our archives in PE (Civil) seminar. The fee for access to the live seminar on Engineering Economics and a copy of PECV Manual - Section 15 is \$59.95.
5. Power System Analysis by Grainger and Stevenson published by McGraw-Hill – Optional. This will be helpful to those who have not had this subject in their academic classes

A detailed table of contents (TOC) for both PEEE manuals and Engineering Economics sections can be found at www.irvine-institute.org. There is a \$8.00 shipping charge for each manual and sales tax of 7.75% is added for all shipments within California. There is a 10% discount for those ordering books and enrolling in seminars concurrently.

Our PE Electrical Power seminar follows the syllabus established by NCEES and is divided into four modules. NCCES specifications include an extensive list of topics to be covered in four modules. Each module is taught by a faculty member who is an expert in that specific area. Instructors review topics from PEEE Volumes 1 and PEEE Volume 2, Section 6 along with theory and past examination problems before the break. After the break, the lecture continues with discussion of NCEES exam problems and present alternate solutions if necessary. Students can also access archived seminars before the exam so that they can better prepare.

IIT guarantees that students who attend our seminars and study seriously will pass the examinations. Those who do not pass the examination first time will be given free access to the archived seminars for one year. Please register early and start preparing for the exam by ordering books and accessing our archived seminars immediately.

Ordering books and Enrollment into Seminars:

Please go to www.irvine-institute.org and click the links on PE (Electrical) examinations on the left side. Please click Manuals link for detailed table of contents of each manual. Click 'registration by e-commerce' link to register. Pick up the items from lists and add to shopping cart. Also add shipping charges if necessary. Fill the needed information including Apt #, Suite #. Books cannot be shipped to PO Boxes as they need signature for confirmation. You can charge items to Visa or MC or send us a check.

We cannot take American Express cards. Please make sure the address you give on the application matches the one on the credit card. You can give a different shipping address if you are asking us to ship books. We also need phone number and e-mail address to send receipts etc.

Registration Information

- All registrations are processed online through www.irvine-institute.org
- Early registration is highly recommended; classes may close early if filled or get cancelled for low enrollment.
- Seminar fees must be pre-paid by one of the following methods: check, money order, VISA or MasterCard
- **\$50.00 fee will be charged on any checks returned for insufficient funds.**
- **\$50.00 late fee will be charge if enrollment is less than one week before the class start.**
- Manuals are shipped to registrants at the time their enrollment or order is processed. If there is not enough time to ship before the start of seminars, manuals can either be picked up the first day of seminars or earlier at 8659 Research Drive.
- IIT reserves the right to accept registrations and may reject applications from troublesome candidates.
- Both archived and web-casted classes may be subjected to technical difficulties beyond our control. No refunds will be given for minor technical problems, and IIT will do everything in IIT's power to correct the problems as fast as possible.

Guaranteed Pass Policy

- IIT guarantees that students will pass the exam if they attend seminars and receive a Certificate of Completion. Students who fail the exam the first time they take it will be given free access to archives of the same seminar for one year. Students may also re-enroll in the current seminar, if they wish to, by paying a reduced are rate of 50% for the first time and 25% for the second time.

Cancellation Policy

- Any cancellation of a seminar must be made, in writing, before the first class meeting and is subject to a 25% processing charge that will be deducted from the refund of the seminar fee.
- Refunds: No refunds will be issued after the manuals have been distributed and the seminar has begun. Students can choose to attend the same seminar the following semester it is offered if they are unable to attend the initial seminar they registered for. No refunds will be processed 30 days past the registration date.
No refunds will be issued after the manuals have been distributed and the seminar has begun.
- Low enrollment seminars may be cancelled.

Changes to Schedule

- Although it is not our desire to change schedules, due to circumstances beyond our control, there exists a possibility of a schedule change. In the event of such a change, we will make every effort to notify participants in advance.
- Registrants assume the responsibility of calling the office to find out if changes have occurred if they are absent.

Certificate of Completion

- Participants are required to sign the attendance record for every class session to document their participation in the course.
- A Certificate of Completion will be awarded at the end of the seminar. Each registrant must attend the required number of class meetings as shown below, and must return a completed class evaluation at the end of the seminar in order to receive the certificate.

Seminar Days:	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Required Days:	10	10	9	8	7	7	6	6	5	4	4	3	2	2	1

Book Return Policy

- Any book returns must be claimed within 15 days of shipment arrival. Claims for shortages or damage must be made within 5 days of receipt of merchandise.
- All books must be returned (either brought back directly to IIT or shipped back prepaid) in new, resalable condition within 15 days. No refunds will be given for books already opened from the original packaging, damaged, used, or marked up in any way.
- A copy of a sales receipt, paid invoice, or other proof of purchase must accompany the shipment of all returns. Unauthorized returns will be delayed in processing and may not be accepted for credit and/or may get returned to the customer.
- All book returns are subject to a restocking fee of 25% of the original selling price.

Privacy Statement

- All information supplied by participants will be maintained for a period of seven years. No release of any information will be done without the expressed written consent of the participant.

Classroom Rules

- “Loaner” manuals are not available.
- Videotaping and/or audio recording are prohibited.

Hours of Operation

- All weekend classes are from 9:00 a.m. to 12:00 noon and 1:00 p.m. to 4:00 p.m. unless otherwise noted. All weekday classes are from 6:30-9:30pm.

■ Complimentary coffee breaks are from 10:30 a.m. to 10:45 a.m. and from 2:30 p.m. to 2:45 p.m.
Lunch breaks are from 12 noon to 1 p.m.

Parking

■ Parking is allowed only in designated spaces around the office of the Irvine Institute of Technology.
Cars parked illegally in other spaces will be towed at the owner's expense.

General Information & Disclaimer

■ The lectures presented in the series, as well as the manuals and lecture materials provided, represent the opinions of various professionals as a resource for those taking examinations and so do not represent the official position taken by the agencies that administer and grade the examinations. The professionals who lecture, or those who prepare the solutions, or the editor, or the publisher are in no way responsible for the failure of registrants in the exam, or liable for errors or omissions in the solutions, or in the way they are interpreted by the registrants or others.

Location