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## Professional Engineering (PE) Electrical Engineering Power Exam On-line and In-Person Prep Course

- Duration: 40 Hours | Lead Instructor: Professor Bobby Rauf, PE, CEM, MBA
- Passing Guarantee\*

This Sem-Train 40-hour PE On-Line Review Course is designed to prepare PE candidates for the PE Electrical, Power, NCEES® Exam. This course spans over all subject areas listed in the published NCEES® Syllabus. You will see the instructor introduce other vital reference material, i.e. tables, codes, NCEES® FE Reference handbook, etc., as necessary. The NCEES® FE Reference handbook can be downloaded free from the NCEES® website and is highly recommended as one of the reference books to take to the exam until the exam is converted to the CBT format. The Exam preparation and exam taking strategies are covered in the first segment/class to maximize the exam preparation efficiency and the probability of success in the exam. Attendees are given the opportunity to engage in some class work in order to enhance interaction and participation. The on-line classes are held live, using WebEx or equivalent conferencing audio/video system. Each participant will be able to contact the instructor – with questions related to the material covered in the segment/class until the upcoming next exam. Even though short introduction to engineering principles and concepts is provided on most topics covered in the course, they focus heavily on problems that in style or content are likely to be encountered in the exam. All lectures are based on Microsoft® PPT slides and pertinent reference material. See the Sem-Train course syllabus below.

### What distinguishes the Sem-Train PE course from others?

- You will be provided access to an A/V recording of the course until the next upcoming PE exam date.
- The experience of the instructor - over ten years' experience teaching PE and FE classes, live, in-person and on-line, in the US and abroad. See the testimonials.
- Our course **includes valuable handouts**, replete with important problems and solutions and detailed explanation of solutions that are rarely found in other similar courses.
- Our comprehensive course **also includes hard copies of two books** that are mandatory components of the course.
- Prof. Rauf, the author and instructor of this course – through his years of experience - knows the pitfalls and weakness of most candidates, and therefore dwells on the fundamentals and strategies necessary to prevail in the exam.

\* We guarantee that you will pass the PE Electrical Power Exam if you complete **all** segments of the course, attend a minimum of 80% of the classes, follow the regime recommended in all of the segments of the course and submit the problem solutions, in pdf format, to Sem-Train for review. If you complete the aforementioned regime, and don't pass the exam, you will be permitted access to the On-Line course, one more time, absolutely free, the next time it is scheduled and conducted.

<b>Syllabus, PE EE Power 40-Hour Plus On-Line and In-Person Course</b>		<b>Approx. Hours</b>
Segment 1	Introduction and Engineering Econ.	<b>4</b>
Segment 2	Circuit Analysis DC	<b>2</b>
Segment 3	Circuit Analysis AC, 1-Phase	<b>3</b>
Segment 4	Circuit Analysis AC, 3-Phase	<b>3</b>
<b>Segment 5(a)</b>	<b>Per Unit Analysis</b>	<b>2</b>
<b>Segment 5(b)</b>	<b>Short Circuit Fault Analysis</b>	<b>3</b>
Segment 6	Power Factor Analysis/Correction	<b>1</b>
Segment 7	Transmission	<b>2</b>
Segment 8	Transformers	<b>3</b>
Segment 9	DC Machines	<b>2</b>
Segment 10	AC Machines	<b>4</b>
Segment 11	Power System Performance	<b>1</b>
Segment 12	Devices and Power Electronics	<b>3</b>
Segment 13	Power System Protection	<b>2</b>

Segment 14	Power Quality and Energy Mngt.	1
Segment 15	Measurement and Instrumentation	1
<b>Segment 16 (a)</b>	<b>Codes and Standards, NEC</b>	<b>3</b>
<b>Segment 16 (b)</b>	<b>Codes and Standards, NFPA 70 E, Arc Flash</b>	<b>2</b>
Segment 17	Special Applications	2
Segment 18	NCEES Sample Exam Challenging Problems' Solutions and Tips	1
	<b>Approx. Total Hours</b>	<b>44</b>

Note: Scheduling and registration of the on-line and in-person courses is based on groups of six or more. Please contact us at <https://www.sem-train.com/fundamentals-of-engineering/> for a quote and registration.

### Testimonials

- I enjoyed the spring course very much and Bobby Rauf did a great job – very capable and professional instructor! NYC, 2019.
- The information shared in the course, as well as the guided study and discussions helped make passing possible. NYC, 2019.
- It was a very productive class and I enjoyed it. C. Mota. 2019 PE EE Class.
- This is a Token of our Appreciation as you have conducted 5 days of “PE Electrical Power” Preparation class last week. Your source of information, contribution of teaching, tips and good advices will help our participants in many ways. Thank you for sharing your knowledges. R. Karim, I. Tohamy, C. Mota, M. Haque, S. Dash & Our Entire Team, March 2019 PE EE Power Class. NYC, 2019.
- I just received the result. I pass...Just want to share the good news with you. Thank you so much for your help. Your review course was really helpful and helped me passed the exam. Sang, 2017.

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- Hi Bobby, just want to let you know that I passed the PE exam. I'm sure your instruction played a big part in my success. I also did MANY problems from other test guides and anytime I came across a foreign term or concept. I researched the heck out of it. Walter 2017.
  - I ... wanted to let you know that I received a passing score on the October Power PE Exam. The .... Review Class was very beneficial in preparing me for the exam. Bill W. 2017.
  - I'm pleased to announce that I passed the 27 Oct EE Power PE exam! I'm so grateful and relieved to let you know this. Thank you for all your work and efforts in providing us review with the course. I truly appreciate all your input!! I'll remember you for the rest of my life and I'm sure I'll reference your book often! B. Evans Jr. 2017.
  - Thank you, Bobby for putting on such a great class! I am happy to say that I have passed the PE Power exam in Wisconsin. This was my first attempt and can honestly say that this course helped me achieve a passing score. C. Miller, 2017.
  - I enjoyed the spring course very much and Bobby Rauf did a great job – very capable and professional instructor! R.C. Mars 2016.