



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

Environment, Health, & Safety
Training Program

EHS 268 ~ Introduction to NFPA 70E
Course Syllabus

Subject Category: Electrical Safety
Course Length: 4 hours
Delivery Mode: Classroom

Course Prerequisite: None
Medical Approval: None
Frequency: One Time

Course Purpose: The purpose of the course is to familiarize the student with electrical safety work practices as described by NFPA 70E, as well as enable the student to define hazards and controls specific to their particular job function in terms of NFPA 70E.

Course Objectives:

Upon completion of the course you will be able to:

- Define the scope of your work, the hazards and the controls, in terms of NFPA 70E in order to write an accurate AHD for yourself.
- Recognize hazards of electricity
- Describe the purpose of NFPA 70E and its relationship with OSHA and LBNL
- Describe primary protection from hazards of electricity
- Apply safe work condition requirements
- Apply written work permit requirements
- Evaluate shock and arc flash protection boundaries
- Describe correct selection and use of electrical PPE

Subject Matter Expert: Mark Scott

Training Compliance Requirements: 29 CFR 1910 Subpart S, NFPA 70E, Chapter 8

Final Exam: Progressive tests and exercises.

Course Instructional Materials: PowerPoint presentation, and progressive exercises and tests

Performance Criteria: Employees will be asked to demonstrate what they have learned from the training by passing progressive tests and participating in exercises.

Retraining/Recertification: No

WEB Resource: Pub-3000, Chapter 8 and EH&S Training Program web page @ <http://www.lbl.gov/ehs/html/training.htm>