



Environment, Health, & Safety
Training Program

EHS 260 Basic Electrical Hazards and Mitigations
Course Syllabus

Subject Category: General
Course Length: Approximately 1 hour
Delivery Mode: Web-based Training

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

Course Purpose: This course is designed for the general Lab population who works with or around electrical equipment without qualified electrical worker status. It is not for those who only work in an office setting. This course provides information, examples and work related scenarios that allow the learner to identify electrical hazards and the safe work practices and rules that should be taken to avoid injury in the work place. In addition, the course goes over emergency response procedures related to electrical injuries.

Course Objectives:

1. Describe the main hazards associated with electricity.
2. Identify the factors that affect the severity of shock.
3. Identify methods to prevent shock and other electrical accidents.
4. Explain what to do if you encounter a hazard or potential hazard.
5. Identify conditions that require a qualified and authorized worker to perform electrical work.
6. Identify conditions that require a GFCI.
7. Identify the importance of a GFCI to safety and the interval which they should be tested.
8. Explain safe work practice and rules regarding circuit breakers.
9. Identify safe work practices and rules regarding cord use
10. Explain the rules regarding work on energized equipment.
11. Explain the purpose of Lockout/Tagout.
12. Identify how to respond appropriately to an electrical shock incident.

Subject Matter Expert: Mark Scott

Training Specialist: James Basore

Training Compliance Requirements: 29CFR 1910.Subpart s

Web-based Exam: Yes

Practical Exam: No

Course Instructional Materials: Web-based course and a PDF downloadable version of the course.

Performance Criteria: Employees will be asked to demonstrate what they have learned from the web-based training by passing the quiz at the end of each module with a score of 80% or greater.

Retraining/Recertification: No

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