



**Environment, Health, & Safety
Training Program**

**EHS 0537 Electrical Injuries and Emergency Response
Course Syllabus**

Subject Category: Electrical Safety
Course Length: 2.5 hours
Delivery Mode: Classroom

Course Prerequisites: EHS 0116, EHS 0123
Medical Approval: None
Frequency: Every 3 years

Course Purpose:

This is one of the five courses required for persons functioning as a Standby Person for electrical work. The course prepares workers to safely respond to electrical injuries that may occur while a QEW is performing hazardous electrical work.

Course Objectives: Upon completion of the course the student should be able to:

- Describe the nature and types of electrical injuries, their possible severity and how they affect the human body.
- Distinguish the relationship of shock and hazard threshold curves and why they are important.
- Describe the requirements for AED and CPR knowledge for people acting as a "Standby Person" for someone performing electrical work.
- Select the appropriate rescue technique and emergency response for electrical incidents and accidents they may encounter in their function as a Standby Person.
- Describe the required steps and response for electrical shock incidents and information required to be conveyed to Emergency Response and Medical Services personnel.
- Explain the Role and limitations of the Standby Person in providing assistance to QEW personnel.
- Demonstrate contact release and rescue of a QEW using a weighted dummy and rescue hook.

Subject Matter Expert: Mark Scott, Stephanie Collins

Training Compliance Requirements: LBNL Electrical Safety Manual, EHS Safety Manual (formerly PUB-3000)-Chapter 8, *Electrical Safety Program*, 29CFR 1910.147, 29CFR 1910.333, NFPA 70E

Course Instructional Materials: PowerPoint presentation and video, rescue hook, weighted human dummy

Performance Criteria: Student must pass a written test to demonstrate their ability to use the classroom resources provided to receive course credit.

Web Resource: <http://electricalsafety.lbl.gov/>, Field Guide 10, *Safety Watch versus Standby Person*