



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

**EHS 0550 QEW2 Electrical Safety Basics
Course Syllabus**

Subject Category: Electrical Safety
Course Length: 5 hours
Delivery Mode: Classroom

Course Prerequisites: EHS 0549, EHS 0370
Medical Approval: None
Frequency: Every 3 years

Course Purpose:

This is the first course in a series required for QEW2. The course provides a foundation for workers to understand and apply ISM within the context of electrical work, associated drivers and resources available to ensure electrical safety in the workplace, including an introduction of the Lab's Electrical Safety Program from the QEW perspective.

Course Objectives: Upon completion of the course the student will be introduced to the following:

- ESH Manual, Chapter 8, *Electrical Safety Program* (formerly PUB-3000, Chapter 8).
- Electrical Safety Manual.
- PUB 3140 Integrated Safety Management System.
- Electrical AHJ's (Authority Having Jurisdiction) and their areas of responsibility
- Effects of electrical energy on the body.
- Electrical Injuries and Emergency Response.
- Role of the QEW2 in providing assistance to non-QEW and QEW1 personnel.

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

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 1