EHS 0581 Construction Subcontractor Electrical Safety Site Specific Training

Course Syllabus

Subject Category: Electrical Safety
Course Prerequisite: None
Course Length: 3 hour class + 1 hour test
Medical Approval: None
Delivery Mode: Classroom
Frequency: Every 3 years

Course Purpose:
This course outlines the Lab’s Electrical Safety Program and its Application to Construction Subcontractors. It communicates in detail Berkeley Lab specific policies and procedures for the control of electrical work (Chapter 8, Work Process F) and fulfills the lab’s Host Employer responsibilities per NFPA 70E, Article 110.1(A).

Course Objectives: Upon completion of the course the student should understand the Laboratory’s Electrical Safety Program and Performance Expectations with regards to performing electrical work and will be introduced to:

- ES&H Manual, Chapter 8, Electrical Safety Program (ESP)
- Electrical Safety Manual (ESM)
- Electrical Safety Website
- LBNL terms: AHJ and QEW
- QEW levels, restrictions and QEW badges
- QEW Practical and performance expectations for Certification
- Basic Integrated Safety Management as it applies to electrical work
- Hazard Classification Tables
- Controls:
  - Modes of Work
  - Zero Voltage Verification requirements
  - Voltage Glove requirements
  - Arc Flash PPE levels
  - ANSI Barricades and Signage
  - Two-Person rules
  - Subcontractor Inspection with IAHJ (Mode 0)
  - Subcontractor LOTO Permit (Mode 1)
  - Subcontractor Energized Electrical Testing Permit (EETP), (Mode 2)
  - Subcontractor Daily Toolbox meetings
- Emergency Response Actions required following an Electrical Injury/Incident

Subject Matter Expert: Mark Scott, Stephanie Collins


Course Instructional Materials: PowerPoint presentation and video

Performance Criteria: Student must pass a written test with a score of 80% or greater to receive course credit.


10/12/2016