



Environment, Health, & Safety
Training Program

EHS 210 ~ Crane/Hoist Operator-2 Tons (4,000 lbs) or less

Course Syllabus

Subject Category:	Occupational Safety	Course Prerequisite:	No
Course Length:	Two hours	Medical Approval:	No
Delivery Mode:	Class (Class size minimum – 3)		
Schedule:	Offered on request (at least quarterly)		
Location/Time:	Building 70A-337		

Course Purpose: This course is designed for LBNL staff who operate hoists on an incidental basis with a load of two tons or less. This course is to provide the information and skills necessary to safely work with hoist equipment and includes guidelines for hoist inspection and balancing loads. This course also complies with training requirements for Lab support staff who use cranes as an elevated work platform.

Course Objectives - Students will:

- Be able to determine gear election
- Review the rationale for Hoist Operator Training and the Regulations.
- Receive information on pre-operation inspection on the hoist: Hoist capacity, Attachment points, disconnect LOTO, "Fixturing" (below the hook lift devices), PPE
- Become familiar with hoist operation procedures
- Identify local hazards during a hoist operation
- Review overhead clearance and safety zones
- Differentiate between high consequence lifts and fixed loads.
- Learn landing and realignment of load principles
- Properly store and secure gears
- Review Lessons Learned on Hoist Operations

Course Instructional Materials:

- Video- "*Cranes, Chains, Slings, & Hoists*" – Safety Interactive, Inc.
- Photos of hoist set-ups and mishaps

Instructors: Steve Wright – Crane / Elevator Office

Training Compliance Requirements: LBNL Best Work Practices; PUB-3000, Chapter 5.

Course Hand-outs:

- EHS 0210 – Hoist Safety Training Powerpoint Presentation

Participant Evaluation: Written evaluations regarding the effectiveness of the trainer, the training and the visual aids.

Written Exam: Quiz

Practical Exam: Each participant must successfully pass a practical preferably in his/her own work area. Call Crane / Elevator Office for Checkout (if not performed by immediate supervisor).

Retraining/Recertification: No

WEB Resource: PUB-3000.