



Environment, Health, & Safety
Training Program

EHS 0210 ~ 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:	Quarterly		
Location/Time:	EHS Training room		

Course Purpose:

This course consists of two parts (1) a classroom presentation and quiz (2) a hands-on practical. The training is designed for LBNL staff that 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 that use cranes as an elevated work platform.

Learning Objectives:

- When presented with a selection of slings and rigging equipment, be able to identify any defects, and take appropriate action.
- Using a daily inspection tag, be able to accurately inspect a manual and motorized chain operated crane and perform function test.
- Explain what a high consequence lift is, and how to respond.
- Explain rigging requirements and identify standard rigging equipment.
- Explain when to use swivel lift rings and under what conditions they are used in place of shoulder eye bolts.
- Given an off-balanced load, be able to balance and hoist the load using appropriate rigging equipment.
- Given the weight and dimension of a load, be able to calculate the capacity requirement for the rigging equipment used to hoist the load.
- Identify where to purchase crane equipment
- Explain types of PPE to use when operating a crane and when crane or hoist that is more than 12 feet off the ground.

Course Instructional Materials:

- Power Point and student handout

Instructors: Mike Wisherop

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

Course 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.