



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

Environment, Health, & Safety
Training Program

EHS 302 – Laser Safety Training
Course Syllabus

Subject Category: General

Course Length: Approximately 2 hours

Delivery Mode: Web-based

Course Prerequisite: None

Medical Approval: None

Course Purpose: This Department of Energy Laser Safety course is designed to provide the LBNL laser user community with information on the hazards of laser radiation, along with control measures. The goal of this course is to provide you with the knowledge required to work safely with or around lasers. In addition, laboratory/DOE policies are discussed.

Course Objectives:

- Describe classes of lasers
- Identify laser generated hazards.
- Describe good practice when performing alignment activities.
- Describe how laser accidents occur.
- Describe the health effects of laser overexposure.
- Recall what to do if you are injured by a laser.
- List at least three laser safety tools.
- Discuss Minimum Permissible Exposure(MPE) and its application to Lasers.
- Explain the purpose and use of protective equipment and control measures.
- Recognize special hazards associated with fiber optics and relevant controls.
- Identify non-beam hazards and their controls.
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Subject Matter Expert: Ken Barat & DOE Laser Safety Experts

Web-based Instructional Designer: James Basore

Course Instructional Materials: Web-based course. A PDF downloadable version of the course is available within the course.

Performance Criteria: Employees will be asked to demonstrate what they have learned from the web-based training by taking a quiz at the end of the each module. After successfully completing each module quiz, the learner will sign an electronic acknowledgement in order to receive course credit.

Web Resource: EH&S Training Program web page @ <http://www.lbl.gov/ehs/html/training.htm>