



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

EHS 0304 Laser Alignment Training

Course Syllabus

Subject Category: Laser Safety
Course Length: 2-3 hours
Delivery Mode: Hands on
Schedule: in-class & Hands-on

Course Prerequisite: No
Medical Approval: No

Course Purpose: This course teaches researchers how to safely align a laser setup. It is for researchers who are new to using lasers or unexperienced, and who need additional training on how to perform laser alignment. The hands-on training provides guided practice by the Lab's Laser Safety Officer using a low powered lasers and configurable set ups. The training also provides scenarios for simple setup and configurations that allow students to practice in a safe environment. This hands-on training is not a substitute of the in lab OJT.

Course Objectives:

After completing this course, participants should be able to:

- Demonstrate safe laser beam alignment procedure and skills.
- Properly align optics to control beam and direct beam safely
- Learn techniques of assisted viewing of invisible laser beams.
- Identify the appropriate controls to mitigate laser beam hazards while working with lasers.
- Recognize how to avoid common mistakes that lead to accidents.

Course Instructional Materials: Handouts including work scenarios, and the LBNL Laser Reference Guide

Instructor: LBNL Laser Safety Officer, and other qualified RPG instructors

Training Compliance Requirements: Not required. Course is an elective.

Written Exam: No

Practical Exam: No

Retraining/Recertification: No