
Environment, Health, & Safety
Training Program

EHS 300~ Fiber optic Safety

Course Syllabus

Subject Category:	Industrial Hygiene	Course Prerequisite:	No
Course Length:	45 minutes		
Medical Approval:	No		
Delivery Mode:	Class, or one-on-one session provided by instructor.		
Schedule:	By special request (Call Ken Barat x:2544) or (Training office x:2228)		
Location/Time:	Bldg. 70A-3377 or user site		

Course Purpose: This course is designed to provide the LBNL user of fiber optic communication systems installers and service staff with information on the hazards of laser fiber optics, along with its control measures. Such training is required under ANIS Z136.2

Course Objectives:

- Provide information on biological effects of laser wavelengths
- Raise user awareness of hazards presented by optical communication fiber optics
- Learn laser hazard classification system
- Provide information and factors in the use fiber optics
- Demonstrate laser control examples

Course outline

- Introduction
- Why are laser special
- Biological effects
- ANSI Z136.1 & Z136.2
- Laser Hazard
- Non beam Hazards
- Fiber Accidents
- How fibers look at LBNL

Instructor: Ken Barat

Training Compliance Requirements: 8CCR 3203; Work Smarts Standards (OSHA), ANSI Z136.2

Course Handouts: EHS 300 Power point presentation

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

Written Exam: No

Practical Exam: No

Retraining/Recertification: None

WEB Resource:

PUB-3000, Chapter 16 Laser Safety - <http://www.lbl.gov/ehs/pub3000/CH16.html>

Appendix B. AHD Guidelines for Laser Alignment

EH&S Website: Industrial Hygiene/Laser Safety Group - <http://www.lbl.gov/ehs/ih/lasers/index.shtml>