

_Environment, Health, & Safety _ Training Program

EHS 353 Chemical Hygiene and Safety Refresher Training Course Syllabus

Subject Category: GeneralCourse Prerequisite:EHS0348Course Length: 2 hoursMedical Approval:NoneDelivery Mode:Web-based TrainingFrequency:Every 3 Years

Course Purpose: This course provides information to Lab employees on the hazards and controls associated with chemicals that may be encountered in a research lab setting. Such information will include methods and observations that may be used to detect the presence or release of a hazardous chemical in a work area. It will also include the physical and health hazards associated with chemicals in a work area, along with the steps employees can take to protect themselves from such hazards.

Course Objectives:

- 1. Identify who to contact to discuss safety concerns
- 2. Recall how to obtain and use information resources to help keep you safe while performing work with chemicals.
- 3. Recognize the two most important routes of exposure when working with chemicals
- 4. Recall the physical hazards associated with flammables, combustibles and reactives
- 5. Recall the health hazards associated with work involving corrosives and toxic chemicals
- 6. Identify alternative ways to reduce chemical exposure
- 7. Recognize when to use fume hoods and glove boxes
- 8. Identify how to properly select, dispose, and store personal protective equipment
- 9. Recall the laboratory requirements for eating and storing food
- 10. Identify good housekeeping practices
- 11. Recall the posting requirements for work areas containing hazardous chemicals
- 12. Identify how to properly label, safely store, and transport chemicals
- 13. Recall the chemical inventory responsibilities of PIs
- 14. Recall the chemical exposure detection methods
- 15. Recognize the warning properties of chemical exposure
- 16. Recognize what to do when a spill occurs
- 17. Identify what to do in personal exposure emergencies
- 18. Recall the fire extinguishers requirements when working with chemicals

Subject Matter Expert: Larry Mclouth

Web-based Instructional Designer: Brooke Vaughn

Training Compliance Requirements: OSHA Occupational Exposure to Hazardous Chemicals in Laboratories 29 CFR 1910.1450

Course Instructional Materials: Web-based course and 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 course. Employees must pass the quiz with a 80% score to receive course credit.

Web Resource: Chemical Hygiene and Safety Plan - http://www.lbl.gov/ehs/html, EH&S Training Program web page @ http://www.lbl.gov/ehs/html/training.htm