



TRAINING PROGRAM



Applied Laboratory Safety Techniques

Introduction:

This comprehensive course provides an in-depth look at the fundamentals of lab safety and effective lab safety programs. It provides participants with an overview of laboratory hazards, regulatory requirements and preventive measures. You will learn to identify and manage common laboratory hazards, many of which you may never have considered. Topics include: chemical and biological hazards, electrical, emergency preparedness, fire control, handling glassware, hazardous material storage, hazardous waste management, legal aspects, OSHA Lab Standard, safety program planning, personal protective equipment, and ventilation.

Who Should Attend?

Lab Managers, Technicians & Personnel, Supervisors, Environmental, Health & Safety Personnel & Professionals, Chemical Engineers & Technicians, Researchers, Risk Managers, Operations Managers, those responsible for ensuring that the lab is in compliance with EPA and local hazardous waste regulations Environmental, Line Managers who have been assigned responsibilities of safety management system & in training employees in safety rules

Course Objectives:

By the end of this course delegates will be able to:

- Learn lab safety and effective lab safety techniques & procedures
- Gain an overview of laboratory hazards
- Learn how to apply regulatory requirements and preventive measures
- Identify and manage common chemical, biological and electrical laboratory
- Be familiar with emergency preparedness and fire control techniques
- Learn about handling glassware and hazardous material storage
- Gain insight in hazardous waste management
- Understand OSHA Lab Standards
- Learn about safety program planning
- Learn how to apply personal protective equipment (PPE)

Course Outline:

- Introduction to lab safety
- Scope of the Problem
- Accidents
- Legal Aspects of Safety
- OSHA Laboratory Standard
- Fire Control
- Labeling
- Biological and Animal Hazards
- Handling Glassware
- Eye and Face Protection
- Planning for Emergencies
- Handling Chemical Reagents
- Ventilation
- Electrical Safety
- Your Most Serious Problem
- Storage of Chemicals
- Disposal of Chemicals
- Introduction to waste management

- Environmental Controls
- Hazardous Waste Regulations As They Apply to Laboratories
- Other Regulatory Requirements & Issues
- Waste Minimization
- Onsite Handling of Lab Wastes
- Working with Vendors
- Employee Training