



Hazardous Laboratory Chemical Handling & Procedures

Introduction:

This course introduces participants to the core components of the industrial health approach to minimizing exposure to harmful hazards upon chemical handling. This course will provide an introduction to the potential hazards when dealing with chemicals. After outlining chemical properties details are given of potential health risks, storage facilities, handling, protective equipment and methods for dealing with chemical releases.

Highlights of the course are:

- Reducing potential hazards
- Removing risks and in the event of an incident
- Minimizing the consequences
- Planning and dealing with an emergency should a major incident occur

Who Should Attend?

Lab Managers and Supervisors, Chemists and Technicians, Health & Safety and Environmental Professionals, staff responsible for managing hazardous wastes, Laboratory Technicians, Technologists, Analytical Laboratory Professionals, Laboratory Staff, Superintendents, Supervisors, Engineers, Chemists and Analysts, Auditors, Research Directors, anyone working in any analytical laboratory, Chemical Engineers, Health & Safety Professionals Instrument Engineers and Supervisors who work in laboratory

Course Objectives:

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

- Procedures for dealing with spillages
- Reporting requirements to relevant authorities
- The characteristics of chemical hazards
- How to minimize the risk of their hazardous potential being released
- Basic design and layout for good storage and handling procedures
- Safe operations involving bulk storage, transfer and handling
- How to deal with incidents involving the release of chemical
- Safe disposal procedures for unwanted substances

Course Outline:

- Introduction
- Safety and Safety Management
- Industrial Hazardous
- Chemical hazardous materials
- Chemical Toxicity
- Carcinogens
- Highly toxic
- Other toxic materials
- Sensitizer, Corrosive Chemicals
- Irritants, Protection from corrosives
- Physical hazards
- Properties of flammable liquids
- Hazards of metals

- OSHA regulations
- Chemical material hazards
- Hazards Communications
- HAZCOM
- Hazardous materials communications
- Labels
- Placards
- Materials Safety Data Sheets (MSDS)
- Hazardous materials work practices
- Transportation
- Packaging
- Handling
- Storage
- Emergency Response plans and procedures
- Confined space entry
- Personal protective equipment