

Course Name: **Chemical Handling Training**

Synopsis

The Chemical Handling Training Course is designed to provide participants with essential knowledge and skills for safely handling chemicals in a variety of industrial and workplace settings. The course will cover important topics such as chemical hazards, risk assessment, personal protective equipment (PPE), safe storage and handling procedures, emergency response, and regulatory compliance specific to Malaysia.

This course aims to :

- Understand the hazards associated with different types of chemicals
- Identify potential risks and perform risk assessments.
- Learn about appropriate personal protective equipment (PPE) for chemical handling
- Develop safe storage and handling procedures
- Gain knowledge of emergency response protocols
- Understand the relevant regulations and compliance requirements in Malaysia

What You Will Learn

At end of training, participant will be able to:

- Identify chemical occupational hazard at workplace.
- Practice correct technique managing chemical handling at workplace.
- Improve in communication on chemical handling medical emergency at workplace

Who Should Attend

Apply to all levels of daily operation officer, executives, management and security officer.

Prerequisite

N/A

Course Methodology

Presentation by trainer, scenario case discussion, practical group activities.

Course Duration

2 days- 9am - 5pm

Course Structure

Session 1: Introduction to Chemical Handling

- Welcome and Course Overview
- Importance of Chemical Safety
- Legal and Regulatory Framework (e.g., OSHA, EPA)
- Hazardous Chemicals Classification (GHS)
- Safety Data Sheets (SDS) and Labeling

Session 2: Chemical Hazards

- Types of Chemical Hazards (e.g., physical, chemical, biological)
- Routes of Exposure (inhalation, ingestion, skin contact)
- Understanding Toxicity and Exposure Limits
- Personal Protective Equipment (PPE) Selection
- Emergency Procedures and First Aid

Session 3: Safe Storage and Handling

- Chemical Storage Guidelines
- Compatibility of Chemicals
- Ventilation and Containment
- Spill Response and Cleanup
- Practical Exercises and Demonstrations

Session 4: Risk Assessment and Management

- Conducting a Chemical Risk Assessment
- Control Measures and Hierarchy of Controls
- Safe Work Practices
- Safe Chemical Transfer and Dispensing
- Fire Safety and Extinguisher Use

Session 5: Chemical Handling and Transportation

- Handling and Transportation of Chemicals
- Labelling and Documentation for Transportation
- Emergency Response Planning

- Case Studies and Group Discussions

Session 6: Chemical Management Systems

- Inventory Management
- Procurement and Vendor Relations
- Chemical Waste Disposal
- Audits and Inspections
- Review of Case Studies and Group Activities
- Final Assessment and Certification

Session 7: Course Review

- Written Assessment or Quiz
- Q&A Session
- Distribution of Certificates of Completion