



HSE144

Storage, Handling of Chemical and Toxic Materials

Course Introduction:

This course provides detailed aspects regarding the purchase, transportation, storage and handling of chemicals and in particular hazardous chemicals. Using a mixture of formal presentations and group exercises, the course will enable the delegate to become familiar with the properties of hazardous chemicals and how both to control them safely and to obtain the information needed to provide a safe system of work.

The problems associated with accidental chemical releases and the actions to be taken are covered and to provide a complete picture, the problems associated with waste disposal.

Procedures for the assessment of the risks during the storage and handling and use are covered so that formal Risk Assessments can be carried out on existing installations and prior to the introduction of a new chemical. This will enable the delegate to define the precautions, which should be taken.

Finally the delegate will be given guidance on the development of procedures to ensure safe operating practices.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Apply the learnt knowledge on storage and handling of chemical and toxic materials
- Carryout transportation of hazardous substances
- Handle and assess the risk prior to working with hazardous substances
- Explain procedures of dealing with spills and contamination of persons and property
- Appreciate the needs for emergency response plans
- Recognize the production of a hazardous substance Procedure Manual
- Perform safe disposal of hazardous waste and by products
- Use personal protective equipment for working with hazardous substances
- Implement purchasing controls for ordering hazardous materials and identify storage facilities and security considerations

Who Should Attend?

This course is intended for those dealing with hazardous materials and chemicals in the workplace such as managers, engineers and other technical staff. This course is also suitable for health, safety and environmental (HSE) personnel.

Course Outline:

Day 1:

- The role of the supervisor and manager in preventing chemical incidents
- Types of hazardous substances
 - Understanding of key properties and principles of classification
- How international regulations identify hazardous substances

Day 2:

- Hazardous data sheets
 - Information required to complete or interpret hazard data sheets
- Packaging hazardous substances for carriage
- Transportation of hazardous substances
 - key international regulations
- The role of the purchasing department in ensuring safe handling

Day 3:

- Transport of hazardous substances
- Documentation needs
- Safety equipment
- Operational controls/limits
- Storage of hazardous substances
- Bulk storage
- Packaged goods storage
- Chemical warehouses
 - Design and operational features

Day 4:

- PPE assessments selection and use
- Risk assessment as applied to transport and storage of hazardous substances
- Safe handling, control and measurement of exposure to hazardous substances

- Spillage containment, emergency response and decontamination/remediation

Day 5:

- The problems associated with the disposal of chemical waste
- Special requirements relating to hazardous work
- Hazardous work documentation
- Key procedures
 - A suggested approach to the development of procedures
- Training needs assessment for the distribution and storage process

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee/Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Coffee/Tea/Snacks)
13:30 - 15:00	Last Session

