

# HAZMAT & HAZWOPER

# HSE043

## COURSE DESCRIPTION

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

By the end of this course, participant will be able to:

- Learn about transportation of hazardous substances
- Learn about Handling and assessment of risk prior to working with hazardous substances procedures of dealing with spills and contamination of persons and property
- Learn about GHS
- Appreciate the needs for emergency response plans
- Learn about the production of a hazardous substance Procedure Manual
- Learn about the safe disposal of hazardous waste and by products
- Learn about Personal Protective Equipment for working with hazardous substances
- Learn about Purchasing Controls for ordering hazardous materials
- Learn about storage facilities and security considerations

## WHO SHOULD ATTEND

This course is intended for engineers, project managers or surveyors who works at a hazardous waste clean-up site on an occasional basis and those who are regularly works with or cleans up hazardous materials or wastes with exposures within "permissible" levels.

## COURSE DURATION

5 Working Days

## COURSE OUTLINES

- Introduction to course, its aims, and objectives
- 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 (OSHA – DOT – EPA) identify hazardous substances.
- NFPA code regarding chemical accidents
- GHS classification and labeling of chemicals.
- Risk assessment of chemicals.
- Hazard identification of chemicals (Physical – Health- Environmental – Biological – Chemical) Hazards.
- The Pass ways of chemicals into the human body.
- Hygiene role for avoiding chemical hazards.
- 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
- 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
- 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
- Hazardous Waste Management HWM and waste hierarchy
- The problems associated with the disposal of chemical waste
- Special requirements relating to hazardous work
- Hazardous work documentation
- Key procedures, a suggested approved to the development of procedures
- Training needs assessment for the distribution & storage process Summarization & Case studies