



HSE130

Safe Handling of Hazardous Waste and Solid Waste

Course Introduction:

This is a course which is designed to teach attendees about Hazardous and non-Hazardous Wastes, Hazardous Materials, the difference between the two, and the transportation of HAZMAT. It will also teach the students about personal protection needed for handling either, the way to screen for Hazardous Wastes, and about Remediation and Emergency Response Planning and tools.

Course Objectives:

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

- Understand the differences between hazardous and non-hazardous wastes, solid waste and hazardous materials
- Comply with the globally harmonized standards on and transportation and handling and packaging of hazardous materials
- Provide and use various elements of personal protective equipment and how to respond to HAZMAT and HAZWASTE Spills, and remediate areas where spills have occurred, hazardous materials are handled, identified, and human responses to exposure
- Develop a health and safety plan, a spill control plan and set up responses to each type of plan
- Plan and develop HAZMAT and HAZWASTE emergency management plans and the elements of a good response

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:

Pre-Test

Hazardous Materials

- Defining a Hazardous Material
- Legal framework for HAZMAT and Dangerous Goods

- Framework for the GHS for HAZMAT And HAZWASTES
- Detailed Discussion of the properties of HAZMAT, handling and shipments
- Alternative methods of handling HAZMAT
- Shipping requirements & Packaging Requirements:
 - Land
 - Sea
 - Air
- Radioactive Materials

Day 2:

Hazardous Wastes

- Hazardous Wastes Defined and classified
- US Definitions/ EU Definitions
- Handling Hazardous Wastes
- Consequences of mishandling Hazardous Wastes
- Hazardous Wastes Disposal Techniques:
 - Thermal
 - Encapsulation
 - Neutralization
 - Oxidation
 - Reduction
 - Biological
 - Solidification
 - Other techniques and Combinations

Day 3:

Toxic Materials and PPE

- Toxicology and Toxic Materials Exposures
- Personal Protective Equipment
- Selecting the right equipment
- Hazardous Atmospheres, IDLH, TWA
- Selecting Boots, Gloves, and other PPE

Responding to Chemical Spills

- Spill Control Planning
- Evaluation Tools
- Handling Leaking Drums
- What's in your response toolkit
 - What to have
 - What else you may need

- Using PID & FID

Day 4:

- Remediation of Hazmat/Hazwaste Sites
- Planning
- The Response Team
- The Unified Incident Command System
- Examples of Cleanup Successes and Failures

Day 5:

Review and Questions

Other methods of remediation:

- Mycoremediation
- Phytoremediation
- Groundwater Problems and Protection
- Groundwater Theory and movement
- Groundwater and soils cleanup

Post Test/Final Examination

Award of Certificates

Dismissal

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 (Prayer Break & Lunch)
13:30 - 15:00	Last Session

