

Hazardous Waste Management

Why Attend

- It is critical for every individual involved with hazardous waste, whether with its disposal or more commonly with its transportation, to acquire the relevant safe handling knowledge and skills.
- The first step in effective hazardous waste management is to understand the difference between what is hazardous and what is not. Many types of hazardous material require special handling, and the correct handling methods must be used for the material being disposed.
- Indeed, hazardous waste, if not contained correctly can lead to fires, explosions, or the release of toxic fumes due to interaction with the container. It is crucial to ensure the hazardous material is ready for transport in order to reduce risks, last minute efforts and added expenses.
- This course provides every professional involved with the knowledge and skills to ensure the safe handling of hazardous waste as well as drafts of contingency/emergency plans.

Course Methodology

- This course will be highly interactive and include group discussions, case studies and syndicate work. It will include practical exercises that will allow all participants to use the knowledge they gained to demonstrate their skills in hazardous waste management.

Course Objectives

By the end of the course, participants will be able to:

- Reduce waste management cost by effectively distinguishing the different types of hazardous waste and applying the relevant pre-transport requirements and disposal methods
- Use engineering controls to ensure all individuals involved with hazardous waste have the required Personal Protective Equipment (PPE)
- Avoid accidents by applying the correct handling methods for drums and containers used for various types of hazardous wastes
- Identify training needs for all individuals involved with hazardous waste management
- Develop emergency response plans to hazardous substance release

Target Audience

- This course is beneficial for individuals in industries that generate hazardous materials and who are charged with the development of contingency or emergency plans. This course is also designed for individuals who are directly or indirectly involved in the cleanup efforts of areas or buildings contaminated with hazardous waste.

Target Competencies

- Hazardous waste management
- Hazardous waste transportation
- Engineering controls
- Drums and containers handling
- Emergency response planning

Understanding Hazard and Risk

- Potential Pollution Linkages
- Concepts in sustainable waste management
- Key pollutants and their impact and management
- Hazardous wastes and their potential for harm
- Types of hazardous wastes, including the management and control of healthcare wastes, wastes from oil and gas industries, and industrial effluents

Hazardous waste collection and operations

- Definition of hazardous waste
- How to classify waste
- Recordkeeping requirements
- Waste container selection
- Safety and health program for hazardous waste operations
- Site characterization and analysis
- Site control

Engineering controls

- Engineering controls
- Engineering controls, work practices and Personal Protective Equipment (PPE)
- PPE selection
- PPE program

Handling drums and containers

- Opening drums and containers
- Material handling equipment
- Radioactive wastes
- Shock sensitive wastes
- Laboratory waste packs
- Sampling of drum and container contents
- Shipping and transport
- Tank and vault procedures

Emergency response to hazardous substance release

- Emergency response plan
- Elements of an emergency response plan
- Procedures for handling emergency response
- Skilled support personnel
- Specialist employees
- Training
- First responder awareness level
- First responder operations level
- Hazardous materials technician
- Hazardous materials specialist
- On scene incident commander
- Trainers
- Refresher training
- Medical surveillance and consultation
- Chemical protective clothing
- Post emergency response operations

Hazardous Waste Management Options

- Hazardous waste reduction: techniques, opportunities and sustainability considerations
- Options for hazardous waste recycling and re-use
- Treatment of hazardous wastes, including acid-base neutralisation, solidification and stabilisation
- Incineration of hazardous wastes: technology and management controls
- Landfill of hazardous wastes: Engineering and environment controls