



Health, Safety and Environment

**Waste management lead**

## Course Introduction

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Increasing urbanization & industrialization leads to the overproduction of waste. It is causing negative impacts on our environment. Raw Materials sources are shrinking, and energy becoming more expensive around the world. Air, soil, and water pollution stands at high risk for sustainable development. Waste management is closely associated counter these issues, and traditional waste management system has failed to address these issues

## Target Audience

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- Environmental Engineers
- Health & Safety and Environmental Professionals
- Staff responsible for managing Hazardous Wastes
- Staff responsible for Contamination Issues
- Laboratory Technicians
- Staff wishing to reduce risk and liability arising from polluting events
- Technical Assistants and anyone who has a role to play in environmental matters of the organization
- Emergency Personnel
- All staff handling the disposal of waste

## Learning Objectives

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- Gain Knowledge in sustainable waste & environmental management system
- Understand different types of waste, their handling, storage, disposal requirements, and their potential effect on the environment.
- Understand and apply the waste management hierarchy for sustainable development
- Insight on roles of various personals in Contamination and Pollution Prevention
- Understand modern waste disposal & treatment methods

- Identification of waste minimization and recycling
- A better understanding of the environmental impact of waste
- Identification of the cost-effectiveness of managing waste efficiently
- Gain insight into new recycling technologies & circular economy
- Identification of legislation and ensuring compliance with waste regulations
- Improve systems thinking skills for global and regional waste management sustainability

## Course Outline

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### • DAY 01

#### **Introduction to Waste Management**

- Introduction to Waste Management
- Global environment issues
- International legislation' treaties and conventions
- The concept of "Duty of Care
- Environmental Management System
- Introduction to ISO 14001, a specification for an environmental management system
- Policy development & objectives setting
- Identification of environmental aspects

### • Day 02

#### **Hazardous Waste & Materials Handling**

- Definition of hazardous waste
- Waste types & characteristics, focusing on oil industry waste (oil-based mud cuttings, norm, oily effluent waters, pyrophoric waste, sludge and scales, ...)
- Recordkeeping requirements
- Waste container selection
- Accumulation point and satellite management
- Safety and health program for hazardous waste operations

- Site characterization, analysis & site control
- Chemical & radiation safety waste collection & transportation

### • Day 03

#### **Winning hearts and minds of people**

- Health & Safety and Environmental Professionals
- Staff responsible for managing Wastes
- Staff responsible for Contamination Issues
- Laboratory Technicians
- Staff wishing to reduce risk and liability arising from polluting events
- Emergency Personnel
- The Importance of Regular Reviews of Emergency Plans
- Life Cycle Management of All Materials being Used in a Company

### • Day 04

#### **Your Role in Contamination and Pollution Prevention**

- Common waste disposal techniques
- Landfill
- Thermal desorption
- Incineration
- Bioremediation
- Downhole injection
- Land farming
- Treatment of Water
- Treatment of Solids
- Treatment of Air Emissions

### • Day 05

#### **Recycling Technology & Circular Economy**

- Why recycling?
- Challenges with critical raw materials (CRMS) and waste.
- Waste prevention through chain optimization
- Recycling economics
- Deferent collection systems for recycling
- Remanufacturing processes

- Refurbishment processes
- Re-use processes
- Recycling processes

## Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION          |
|----------------|----------------|----------|------------|-------------------|
| May 26, 2025   | May 30, 2025   | 5 days   | 4250.00 \$ | UAE - Dubai       |
| Sept. 22, 2025 | Sept. 26, 2025 | 5 days   | 5950.00 \$ | USA - Los Angeles |
| Dec. 22, 2025  | Dec. 26, 2025  | 5 days   | 4250.00 \$ | UAE - Abu Dhabi   |