



*Training Course:
Contamination and Hazardous Wastes-
Management and Prevention*

*25 - 29 January 2027
Madrid (Spain)*

Training Course: Contamination and Hazardous Wastes- Management and Prevention

Training Course code: HE7033 From: 25 - 29 January 2027 Venue: Madrid (Spain) - Training Course Fees: 6300 € Euro

Introduction

Improper storage, handling, and disposal of hazardous chemicals—both products and wastes—can lead to environmental contamination, affecting air, water, land, and even food. Contaminants such as chemical, radioactive, noise, construction-related, mold, and vibration hazards, if unmanaged, pose serious health risks and environmental damage. This five-day program provides participants with comprehensive knowledge of contamination types, contemporary methods to minimize or eliminate hazards, safe alternatives to hazardous products, and environmentally acceptable waste management practices. The course integrates workshops, DVD presentations, and classroom audit exercises to enhance learning and emphasize the economic benefits of pollution prevention.

Objectives

By the end of this program, participants will be able to:

- Identify various types of contamination relevant to their organization.
- Engage with peers on contamination issues and develop regional networks within the GCC for collaborative problem-solving.
- Understand environmental treaties and regulations related to contamination and pollution.
- Prioritize contamination and waste management issues using logical, systematic approaches.
- Recognize the relationship between human health and environmental contamination.
- Apply current methodologies for cleaning contaminated soil, water, air, construction materials, and radioactive substances.

Target Audience

- Environmental Managers and Coordinators
- HSE Professionals
- Operations and Process Engineers
- Facility and Maintenance Managers
- Safety and Compliance Officers
- Personnel responsible for hazardous waste management and environmental compliance

Outlines

Day 1: Brief History of Contamination and Introduction to Hazardous Wastes

- Introduction to contamination and its effects
- Types of contamination
- Global environmental issues and regulatory frameworks

- International treaties and guidelines
- UNEP Toxic 12 Chemicals and emerging concerns
- Environmental law and hazardous vs. non-hazardous wastes
- Connecting contamination and hazardous waste management
- Environmental DVD presentation

Day 2: Management of Contamination and Hazardous Wastes

- Contamination and occupational health & safety
- Documentation and regulatory compliance in hazardous waste management
- Overview of hazardous waste regulations and harmonization needs
- Workplace Hazardous Materials Information System WHMIS
- Material Safety Data Sheet MSDS and Globally Harmonized System GHS
- Conducting contamination audits
- Waste disposal site management
- Environmental DVD and class exercises

Day 3: Contamination and Pollution Prevention

- Review of Day 2 topics
- Exploration, refining, and transportation impacts
- Case study: Gulf of Mexico oil spill, April 2010
- Modern tanker designs and pollution mitigation
- Pollution issues in developing countries
- Concepts of Zero Waste ZW and Zero Liquid Discharge ZLD
- Bird-related pollution and control technologies
- Environmental DVD and class exercises

Day 4: Contamination and Pollution Prevention Planning & Contingency Planning

- Life cycle management of company materials
- The 5 R's: Reduce, Reuse, Recycle, Recover, Rethink
- Safe storage of hazardous materials
- Ongoing training and emergency plan reviews
- Updates on ISO 14001, 18001, and 9001
- Types of environmental audits
- Case discussions on major preventable accidents

Day 5: Advanced Hazard Management & Environmental Ethics

- Review of Day 4 topics
- HAZID Hazard Identification
- HAZOP Hazard & Operability Studies
- Environmental ethics and real-life examples
- Climate change updates relevant to Gulf Coast countries
- Course review and generic recommendations
- Greening the company at reasonable cost

Registration form on the Training Course: Contamination and Hazardous Wastes- Management and Prevention

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