



Eco-Friendly Practices: Contamination & Hazardous Waste Management & Prevention Conference

11 – 15 January 2027
Cape Town (South Africa)





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Introduction

Improper storage of hazardous chemicals - both products and wastes - incompatible inspection of containment materials, using hazardous products when non-hazardous products are available, and inadequate staff training are some of the leading causes of environmental contamination.

Contamination can come in many forms. One example of contamination is ground. Surface water, land, air, radioactive, food, noise, moulds, odour, construction, vibration, and invariably, if these contaminants are not properly dealt with, will result in pollution and, in certain situations, serious health problems.

This five-day eco-friendly hazardous waste management and prevention conference will provide details on the various types of contaminants and the new frontiers in eliminating or minimizing them. This seminar on eco-friendly hazardous waste management and prevention will also discuss the use of effective non-hazardous products in your company and environmentally acceptable disposal methods for both hazardous and non-hazardous wastes.

Incorporating Eco-Friendly Waste Management Systems

Understanding the importance of hazardous waste management and the impact of eco-friendly waste management systems is crucial in developing sustainable practices. Through the eco-friendly hazardous waste management and prevention course, participants will explore the definition of hazardous waste management, become certified hazardous waste managers, and become adept in basic hazardous waste management and methods, including adopting eco-safe waste management systems.

These eco-friendly waste management methods comply with regulations and serve as eco-friendly solutions for waste management, minimizing the environmental footprint of the organizations involved. The eco-friendly hazardous waste management and prevention conference will culminate with practical applications of this knowledge, preparing attendees for various discussions and activities in waste management workshops, seminars on waste management, and the broader hazardous waste management training conference.

Targeted Groups

- Health and 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.
- This eco-friendly hazardous waste management and prevention conference is for Technical Assistants and anyone who seeks to contribute to the organization's environmental matters.
- Emergency Personnel.

Conference Objectives

At the end of this eco-friendly hazardous waste management and prevention conference, the participants will be able to:

- Learn about the various types of contamination and which ones are more applicable to your company.
- Encourage and facilitate dialogue with like-minded individuals on specific contamination issues of concern in their organizations and the opportunity to develop regional networks within the GCC area to address common concerns.
- Learn about the relevant environmental treaties dealing with contamination and pollution.
- Learn how to prioritize contamination problems in dealing with contamination and waste management issues logically.
- Show and emphasize the close relationship between human health and the environment directly affected by contamination.
- Study the current methodologies for the cleanup of contaminated soil, ground and surface water, air pollution, construction materials, and radioactive materials

Targeted Competencies

At the end of this eco-friendly hazardous waste management and prevention conference, the target competencies will be able to:

- Identifying Waste Streams in Your Organization.
- The Value of Waste Streams.
- Waste management practices.
- Evaluate the performance of current waste contractors and sub-contractors.
- Audit the life cycle of waste.
- The Benefits of the 7 R's in Waste Management.
- Monitor and review your performance.

Conference Content

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

- What is contamination, and how does it affect us?
- A Detailed Look at All the Various Types of Contamination.
- Global Environmental Issues Related to Contamination.
- International Environmental Treaties and Guidelines Related to Contamination.
- The Toxicogenic 12 Chemicals and the Role of the United Nations Environment Program UNEP.
- The Current Watch List for Chemicals that may soon be added to the toxic 12.
- Environmental Law and Its Significance.
- Definition of Hazardous Wastes and Non-Hazardous Wastes.
- Connect the dots between Contamination and Hazardous Wastes.

Unit 2: Management of Contamination and Hazardous Wastes

- The Relationship Between Contamination and Occupational Health and Safety.
- The Importance of Documentation in Hazardous Waste Management.
- Some Typical Hazardous Waste Regulations and the Need for Harmonization.
- The Purpose of a Workplace Hazardous Materials Information System WHMIS.
- The Purpose of a Material Safety Data Sheet MSDS.
- Why a Globally Harmonized System GHS is essential for WHMIS and MSDS?
- Carrying out a Contamination Audit.
- Managing a Waste Disposal Site.

Unit 3: Contamination and Pollution Prevention

- Exploration and Production - Refining and Transportation.
- Oil Spills with special reference to the April 2010 Gulf of Mexico oil slick occurrence.
- Modern Tanker Design to Minimize the Occurrence of a Major Oil Spill.
- Other oil-related sources of pollution.
- The Common Thread Amongst Many Third-World Countries Concerning Pollution Issues.
- The Current Concepts of Zero Waste ZW and Zero Liquid Discharge ZLD and Their Limitations.
- The Bird Problem - Pollution from Bird Droppings and Dead Birds and the Latest Technologies to Control this Problem.

Unit 4: Continuation of Contamination and Pollution Prevention Planning and Contingency Planning for Major Incidents

- Life Cycle Management of All Materials Being Used in a Company.
- The 5R's- Reduce, Reuse, Recycle, Recover and Rethink.
- Detailed Requirements for Proper Storage of Hazardous Materials.
- The importance of ongoing training.
- The Importance of Regular Reviews of Emergency Plans.
- Updated Information on ISO 14001, 18001 and 9001.
- Types of Environmental Audits.

Unit 5: Big Picture Review of the Management and Prevention of Contamination and Hazardous Wastes

- HAZID Hazard Identification.
- HAZOP Hazard and Operability.
- Environmental Ethics.
- Examples of Environmental Ethics from the Instructor's Personal Experiences.
- Climate Change Update and Its Significance for the Gulf Coast Countries.