

€ TRAINING

Contamination and Hazardous Wastes -
Management and Prevention





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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 training of staff are some of the leading causes of environmental contamination. Contamination can come in many forms- Some examples of contamination are ground and surface water, land, air, radioactive, food, noise, molds, odor, construction, vibration, etc. and invariably, if these contaminants are not properly dealt with, will result in pollution and certain situations serious health problems. This five-day conference will give some details on these various types of contaminants and the new frontiers in eliminating or minimizing these contaminants, the use of effective non-hazardous products in your company, and also environmentally acceptable methods of disposal for both hazardous and non-hazardous wastes

Conference Objectives:

At the end of this 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 in a logical sequence.
- Show and emphasize the close relationship between human health and the environment that is been 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 Audience:

- 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

Conference Outlines:

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 toxic 12 Chemicals and the role of the United Nations Environment Program UNEP
- The current watch list for chemicals that soon may be added to the toxic 12
- Environmental Law and its significance
- Definition of hazardous Wastes & Non -Hazardous Wastes
- Connecting the dots between Contamination and Hazardous Wastes

Unit 2: Management of Contamination and Hazardous Wastes:

- The relationship between Contamination and Occupational Health & 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 & Production- Refining & 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 available 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 on-going 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 & Operability
- Environmental Ethics
- Examples of Environmental Ethics from the Instructor's personal experiences
- Climate Change update and its significance for the Gulf Coast Countries