

H S E

HEALTH

SAFETY

ENVIRONMENT



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Storage & Handling of Toxic Chemicals & Hazardous Materials

Duration: 5 Days



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 in certain situations serious health problems. This course 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.

Who Should Attend?

Team Leaders, Managers, Line Managers, Supervisors, Team Leaders, Project Managers, Control Center Operators and Supervisors, Emergency Dispatchers, Security Personnel and CCTV Operators, HSE Officers, HSE Personnel, HSE Professionals, Emergency Response Team members, HSE Managers and Auditors, Health & Safety and Environmental Professionals, Fire Officers, Incident Control Point (Forward Control) Team Members, Supervisors, Inspectors, Advisors, Auditors, Laboratory Personnel, Emergency Personnel, Maintenance Personnel, Procurement and Supply Chain Managers, Engineers and Maintenance Personnel, Experienced and new auditors linked to the company's HSE Management Systems (HSE-MS), HSE-MS Personnel.

Course Objectives:

By the end of this course delegates will be able to:

- 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.
- 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
- Show and emphasize the close relationship between human health and the environment that's been directly affected by contamination

- Discussion of the current methodologies for the cleanup of contaminated soil, ground and surface water, air pollution, construction materials and radioactive materials.

Course Outline:

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

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

Contamination and Pollution Prevention

- Discussions on common contamination sources from the contamination audit, sources of pollution and techniques and technologies to prevent or minimize them
- 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

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

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

