

DAY 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

DAY 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

DAY 3

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*

DAY 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
- Discussion of Some Major Preventable Accidents

DAY 5

Big Picture Review of the Management and Prevention of Contamination and Hazardous Wastes

- HAZID (*HAZard IDentification*)
- HAZOP (*HAZard & OPerability*)
- Environmental Ethics
- Climate Change Update and its Significance for the Gulf Coast Countries
- Recommendations including Greening your Company at a Reasonable Cost