

H S E

HEALTH

SAFETY

ENVIRONMENT



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Solid and Hazardous Waste Management

Duration: 5 Days



Introduction:

Industries, commercial facilities and institutions are responsible not only for the products that they produce and sell, but also for the waste materials that they generate. In the past, disposal facilities were cheap

and plentiful and businesses had little incentive to reduce waste products they created. Today, a solid waste management plant is required not only for regulatory and environmental reasons, but also for economic viability.

In view of shrinking budgets and the growing concerns of the general public, it is vitally important to economically maintain satisfactory environmental standards for the disposal of wastes. All existing and emerging options for safe waste handling, disposal and diversion must be explored. This requires a thorough understanding of the available and emerging choices, and development of an integrated solution for managing such wastes.

After participating in this seminar, you will be able to:

- Review the regulations relating to solid and hazardous waste management
- Familiarize yourself with waste audit

Methodology:

- Learn to prepare a waste management plan
- Apply green technology for waste management
- Broaden your understanding of the environment, health and safety issues involved
- Identify savings through reduction, reuse and recycling of your solid waste

Who Should Attend?

Management of solid or hazardous wastes for a municipality, industry or waste management company. Decision makers: municipal administrators and engineers, individuals responsible for operational and regulatory compliance, environmental personnel, landfill and recycling supervisors, public health, social workers, environmental consultants and financiers who want to better understand the industry they represent

Course Objectives:

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

To assist participants in making informed decisions about technological choices in solid and hazardous waste management and to explore alternative funding options, particularly the public private partnership

Course Outline:

Welcome, Introduction, Seminar Preview, Learning Outcomes and the Assessment Method

Overview - What Is Waste?

- Waste Classifications
- Testing requirements

- Hazards and consequences
- Regulatory Aspects of Industrial and Municipal Waste Management
- Provincial and federal waste regulations
- Generation, manifesting and transport issues
- Storage and disposal

The Waste Audit

- Doing a waste audit: characterization and quantities
- Waste stream composition - dry recyclables, organics and residuals
- Special wastes
- Calculating your solid/liquid waste by weight and volume
- Laboratory requirements
- Generator registration

Hazardous Waste Storage, Handling and Disposal

- Storage and handling of hazardous waste
- Laboratory characterization-practical strategies and costs
- MOE generator registration- descriptions, inclusive and exclusive language
- Coordinating with NPRI
- On-site treatment alternatives- permitting requirements
- Overall costing-direct and indirect costs

Reduction/Recycling

- How to reduce waste - cut down use, reuse
- Multi-material recycling
- Integrating collection and processing
- MRFs
- Markets for recycling

Refreshments and Networking

Industrial Waste Reduction

- Preparing a waste reduction work plan
- Opportunities for waste reduction through process revisions
- Finding a home for what you think is garbage (market directories/listings)

Landfill

- Landfill operations and requirements
- Design options, operation and optimization fees

An Integrated Municipal Waste Management System

- Streamlining collection services - weekly, bi-weekly and co-collection
- Diversion - current status and future projections
- Reduction, Reuse and Recycle (3Rs)
- Design criteria for selecting appropriate disposal technologies

Processing of Organics

- Composting- Windrow/In-vessel composting
- Sludge and leachate management
- Sanitary landfill options

Incineration

- Design options, construction and operation of incineration
- Hazardous waste management
- Energy from waste

Economic Issues**Transportation - Procedures and Precautions**

- Handling and transfer
- Identification
- Bulking Stabilization
- Packaging for disposal

Waste Handling and Emergency Response

- Scenarios for disaster
- Emergency response planning
- Responding to waste related incidents
- Traffic accidents involving hazardous materials
- Liability issues

Questions and Answers and Feedback to Participants on Achievement of Learning Outcomes**Concluding Remarks and Final Adjournment**