



# HSE101

## Hazardous & Non-Hazardous Waste Management in Oil and Gas Industry

## Course Introduction:

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Handling and disposal of wastes generated in oil and gas exploration and production has received significant attention in recent years. This heightened interest has been a result of the public and regulatory agencies focus on environmental protection. Because of this, the oil industry has directed emphasis on waste handling and disposal to ensure that these wastes are properly managed.

From company's perspective, proper waste management is an important part of doing business. As a company, they must be concerned with compliance with applicable waste regulations, minimizing the impact of wastes on the environment, and the reduction of potential liability associated with improperly disposed waste. This must be accomplished within certain economic bounds. Also eliminating or minimizing the generation of waste is becoming more critical, both environmentally and economically, as a means of reducing waste-related liabilities and costs.

This course covers regulations and waste management basics, from generation to disposal. The curriculum is designed to provide the information needed as a waste professional, regardless of skill level.

The Waste Management course is a must attend for all individuals with overall waste compliance responsibilities. This course provides the tools needed for the job.

## Course Objectives:

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**Upon successful completion of this course, the delegates will be able to:**

- Apply knowledge on hazardous and non-hazardous wastes, principles of waste minimization or cleaner production and practical knowledge on the identification, segregation, containerization as well as temporary storage
- Perform proper transportation, treatment and safe disposal of hazardous and non-hazardous wastes
- Translate the principles and knowledge on waste management into strategic problem solving
- Recognize the legal requirements to maintain coordination with the regulatory authorities

## Who Should Attend?

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This course is intended for health & safety and environmental professionals, staff responsible for managing hazardous wastes and contamination issues, laboratory technicians and those who are interested in hazardous and non-hazardous waste management.

# Course Outline:

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## Day 1:

### Pre Test

- Overview: Oil and Gas Industry Activities due to Wastes Generated
- Overview: ISO-14001 EMS vs. Wastes Generated
- Legal Requirements: Local-National-Regional-International
- Waste Management Inventory

## Day 2

- Waste Types
- Finding
- Waste Management Options Evaluation
  - a. Waste Minimization: "3R"
  - b. Storage
  - c. Waste Treatment (physical, chemical, biological)
  - d. Disposal

## Day 3:

- Waste Management Hierarchy
- Area Waste Management Plan: Format, Goals, Objectives and Action Guidelines:
  - a. Drilling
  - b. Work over/Completion
  - c. Production
  - d. Miscellaneous (medical, kitchen, etc)
- Labelling/Coding

## Day 4:

- Personal Protective Equipment
- Clean Production:
- Emergency Response Plan

## Day 5:

- 3rd Party Contractor support: how to selection?
- Case Study: lesson - learn
- Inspections and Audit

## Post Test

## Course Certificate:

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**International Center for Training & Development (ICTD)** will award an internationally recognized certificate(s) for each delegate on completion of training.

## Course Methodology:

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**A variety of methodologies will be used during the course that includes:**

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

## Course Fees:

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**To be advised as per the course location.** This rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

## Course Timings:

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### Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session