

**Course Overview:**

Engineering management of hazardous wastes, including extraction, containment, and biological, chemical, and physical destruction technologies. Aspects include engineering characterization, problem definition, treatment, and monitoring. Analysis and design emphasized through problems, examinations, and report writing.

The course will deal with managerial options for avoiding the creation of hazardous wastes and for dealing with hazardous wastes as they are created or as they are found in contaminated sites.

**Course Objective:**

- Identify Chemical Hazards
- Recognize Chemical Materials by categories
- Read Material Safety Data Sheets
- Follow storage requirements

**Course Outline:**

- Identifying Chemical Hazards: Labeling System, Color Code
- Hazard Classes: Flammable, Oxides, Toxic, Corrosive, Radiation, And Biological
- Material Safety Data Sheets: Hazard Diamonds, Statement Of Hazard Class, Un Number, Dangerous Goods Class, Hatchet Code, Subsidiary Risk, The 'Walk-Through'
- Measuring Hazard: Environmental Measures And Biological Measures
- Evaluating Risk
- Controlling Risks: Elimination Of The Risk, Isolation Of The Risk, Minimizing The Risk, Monitoring The Risk.
- Hazardous Material Emergency Spill Response
- Storage Requirements: Storage Cabins, Safety Cans, Fume Hoods, Refrigerators, Other Requirements
- Fire Precaution And Prevention
- Protective Clothing And Emergency Equipment

**Who Should Attend:**

Anyone working with chemicals and hazardous materials

**Training Language:**

EN / AR

**Training Methodology:**

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation