

# € TRAINING

Safety and Hazards in Chemical Factories



1 - 5 September 2024  
Cairo (Egypt)



# Safety and Hazards in Chemical Factories

REF: S1579 DATE: 1 - 5 September 2024 Venue: Cairo (Egypt) - Fee: 4095 Euro

## Introduction:

This training program provides comprehensive instruction on identifying, assessing, and mitigating safety hazards inherent in chemical manufacturing environments. By emphasizing proactive safety measures and emergency response preparedness, the program will foster a culture of safety and reduce the risk of accidents and injuries in chemical factories.

## Program Objectives:

At the end of this program, participants will be able to:

- Identify common safety hazards present in chemical factories.
- Implement effective safety protocols to mitigate risks and prevent accidents.
- Understand regulatory requirements and best practices for ensuring safety in chemical manufacturing environments.
- Demonstrate proficiency in emergency response procedures and incident management.
- Foster a culture of safety awareness and continuous improvement within their organizations.

## Targeted Audience:

- Chemical engineers and technicians involved in manufacturing processes.
- Safety managers and personnel responsible for implementing safety protocols.
- Environmental health and safety professionals working in chemical manufacturing facilities.
- Regulatory compliance officers ensuring adherence to safety standards.
- Emergency response teams and personnel tasked with managing chemical incidents.

## Program Outlines:

### Unit 1:

#### Introduction to Chemical Safety:

- Understanding the importance of chemical safety protocols.

- Identifying common hazards present in chemical factories.
- Recognizing the potential consequences of chemical accidents.
- Exploring relevant regulations and standards governing chemical safety.
- Introducing basic principles of risk assessment and management in chemical environments.

## Unit 2:

### Chemical Handling and Storage Safety:

- Implementing proper procedures for handling hazardous chemicals.
- Ensuring safe storage practices to prevent leaks, spills, and accidents.
- Identifying incompatible chemicals and understanding segregation requirements.
- Utilizing appropriate personal protective equipment PPE during chemical handling.
- Establishing emergency response protocols for chemical incidents.

## Unit 3:

### Process Safety Management:

- Understanding the principles of process safety and their application in chemical factories.
- Conducting process hazard analyses PHA to identify potential hazards.
- Implementing safeguards and mitigation measures to prevent process-related accidents.
- Training personnel on process safety procedures and emergency response plans.
- Monitoring and auditing process safety systems to ensure ongoing effectiveness.

## Unit 4:

### Hazardous Waste Management:

- Classifying hazardous waste according to regulatory guidelines.
- Implementing proper labeling, packaging, and storage procedures for hazardous waste.
- Ensuring compliance with waste disposal regulations and permits.
- Training personnel on safe handling and disposal practices for hazardous waste.
- Establishing procedures for spill containment, cleanup, and reporting.

## Unit 5:

### Emergency Preparedness and Response:

- Developing comprehensive emergency response plans for chemical incidents.
- Conducting regular emergency drills and simulations to test response readiness.
- Establishing communication protocols with emergency responders and relevant authorities.
- Training personnel on emergency procedures, including evacuation and first aid.
- Implementing post-incident debriefing and corrective action processes to improve response effectiveness.