



Health, Safety and Environment

Safety Engineering and Hazard Control

Course Introduction

Hazards exist in everywhere, but how do we know which ones have the most potential to harm people? By identifying hazards, we will be better prepared to control or eliminate them and prevent accidents, injuries, property damage and downtime. After all, we can't fix problems we don't know about. This course helps participants to learn effective and proven methods of hazard identification, assessment, and control by covering essential topics such as hazard mapping, workplace inspections, risk assessment techniques, and the hierarchy of controls

Target Audience

- Understanding the fundamentals of hazard control
- Learning how to develop a comprehensive approach for hazard identification
- Being able to assess the hazards, and determine which ones should be eliminated or controlled first
- Identifying the types of hazard controls that are commonly used in various situations
- Learning how to implement a hazard control program
- Understanding how to assess the effectiveness of the control measures

Learning Objectives

- Understanding the fundamentals of hazard control
- Learning how to develop a comprehensive approach for hazard identification
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Course Outline

• DAY 01

Importance of process safety management

- Case study
- Model for process safety management
- Process safety framework
- Major accidents/accident causes
- Mitigation and emergency measures
- Process safety strategies

• Day 02

Introduction to hazards and risks

- Fire, explosion and toxic release
- Case study
- Risk assessment
- Reaction hazards and material compatibility

• Day 03

Process design

- Case study
- Procedures
- Safe systems of work
- Control of contractors
- Maintenance
- Management of change

• Day 04

Human factors and safety culture

- Safety management and continuous improvement
- Safety leadership at all levels in the organization
- Leading and lagging indicators
- Learning from accidents and incidents
- Legal framework
- Mitigation and emergency measures
- Start of multi-stage case study

• Day 05

Multi-stage case study

- Course summary
- Individual action plans
- Assessment

Confirmed Sessions

FROM	TO	DURATION	FEEs	LOCATION
May 12, 2025	May 16, 2025	5 days	4250.00 \$	UAE - Dubai
Aug. 11, 2025	Aug. 15, 2025	5 days	4250.00 \$	UAE - Dubai
Nov. 10, 2025	Nov. 14, 2025	5 days	4950.00 \$	Turkey - Istanbul