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**Course Name**

# Safety Engineering and Hazard Control

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**Sector Name**

Health, Safety and Environment

**Document Type**

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## Safety Engineering and Hazard Control

### Course Introduction

Hazards exist 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

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## Safety Engineering and Hazard Control

### Target Audience

- ✓ Health and Safety Officers
- ✓ Environmental Health and Safety professionals
- ✓ Health and Safety Managers
- ✓ All professionals use health and safety requirements in their work processes

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## Safety Engineering and Hazard Control

### Learning Objectives

- ✓ 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

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## Safety Engineering and Hazard Control

### 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

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## Safety Engineering and Hazard Control

### Course Outline

#### ✓ Day 02

##### **Introduction to hazards and risks**

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

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## Safety Engineering and Hazard Control

### Course Outline

#### ✓ Day 03

##### **Process design**

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

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## Safety Engineering and Hazard Control

### Course Outline

#### ✓ 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

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## Safety Engineering and Hazard Control

### Course Outline

#### ✓ Day 05

##### **Multi-stage case study**

- ✓ Course summary
- ✓ Individual action plans
- ✓ Assessment

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## Safety Engineering and Hazard Control

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 14, 2027	March 18, 2027	5 days	4250.00 \$	KSA , Riyadh
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 17, 2026	Aug. 21, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 16, 2026	Nov. 20, 2026	5 days	4950.00 \$	Turkey , Istanbul

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