



London TDM

# Engineering and Technical Skills Training Courses

**Course Venue:** United Kingdom - London

**Course Date:** From 19 October 2025 To 23 October 2025

**Course Place:** London Paddington

**Course Fees:** 7,500 USD

## Introduction

Understanding and mitigating industrial risks is crucial for ensuring safety, compliance, and operational continuity. This course is designed to provide professionals with the necessary skills to identify, assess, and manage risks in industrial settings effectively. Over five days, participants will learn to navigate the complexities of industrial risk management, leveraging techniques and best practices to minimize potential hazards.

## Objectives

- Understand the fundamental principles of industrial risk assessment.
- Learn to identify and categorize potential industrial risks.
- Develop effective risk mitigation strategies.
- Enhance decision-making skills in risk management scenarios.
- Gain practical experience through case studies and real-world applications.

## Course Outlines

### Day 1: Introduction to Industrial Risk Assessment

- Definition and importance of risk assessment in industries
- Types of risks in industrial environments
- Risk assessment frameworks and methodologies
- Regulatory requirements and compliance standards
- Introduction to risk management tools and technologies

### Day 2: Identifying and Analyzing Industrial Risks

- Hazard Identification Techniques (HAZID)
- Risk Analysis Methods (Qualitative and Quantitative)
- Failure Modes and Effects Analysis (FMEA)
- Event Tree and Fault Tree Analysis
- Risk assessment workshops and group discussions

### Day 3: Risk Evaluation and Prioritization

- Risk evaluation criteria and assessment scales
- The risk matrix and its applications
- Cost-benefit analysis in risk prioritization
- Decision-making under uncertainty
- Developing risk prioritization plans

### Day 4: Developing and Implementing Risk Mitigation Strategies

- Designing effective risk control measures
- Emergency response planning and preparedness
- Incident investigation and root cause analysis
- Integration of safety systems and protocols
- Case studies on successful risk management implementations

## **Day 5: Monitoring, Review, and Continuous Improvement**

- Establishing monitoring and review processes
- Performance metrics and risk indicators
- Feedback mechanisms and learning from incidents
- Continuous improvement in risk management practices
- Final assessment and certification