



Conference:
Risk Assessment within Production Operations

7 - 11 December 2026
Madrid (Spain)

Conference: Risk Assessment within Production Operations

Conference code: CO8032 From: 7 - 11 December 2026 Venue: Madrid (Spain) - Conference Fees: 6300 € Euro

Introduction

This seminar focuses on advanced Health, Safety & Environmental HSE management systems, emphasizing proactive risk prevention and reactive incident analysis. It equips participants with practical tools to identify hazards, assess and control risks, investigate incidents, and strengthen safety culture within high-risk industrial environments.

Objectives

- Recognize the difference between hazard, risk and risk assessment
- Learn how to evaluate different types of risk
- Develop the skills of applying advanced risk assessment techniques relevant to the process industry
- Develop a strategy for planning and implementing risk reduction action plans
- Appreciate the contribution of human error to accidents
- Be able to apply advanced techniques for root-cause analysis for incidents

Target Audience

- HSE Managers & Officers
- Safety Engineers
- Risk Assessment Specialists
- Process & Operations Engineers
- Plant & Maintenance Managers
- Environmental Compliance Officers
- Incident Investigation Teams
- Professionals in oil, gas, and process industries

Outlines

Day 1: Advanced Risk Assessment Techniques 1: HAZOP

- Introduction to hazards identification and analysis techniques
- Techniques for hazard identification and analysis- HAZOP
- Syndicate exercise- application of HAZOP to batch and continuous processes
- Integrating HAZOP within the risk management system
- Review of commercial HAZOP software

Day 2: The role of Quantified Risk Assessment [QRA]

- Failure Modes & Effects Analysis [FMEA]
- Decision trees and Event Tree Analysis [ETA]
- Sources of failure data
- Fault Tree Analysis [FTA]

- Quantification of ETA and FTA
- Evaluation of Individual and Societal Risks

Day 3: Mechanics of Fire, Explosion, and Toxic Releases

- The role of consequence analysis in QRA
- Types of Fires: Jet flame, pool fire, flash fire, BLEVE
- Types of Explosion: VCE, UVCE, pressure burst, dust explosion
- Vulnerability analysis
- Commercial software for modeling releases, fire, explosion and toxic releases

Day 4: Advanced Incidents Investigation Techniques

- The human contribution to accidents
- The role of root cause Analysis in identifying management system failures
- Accident investigation techniques
- Latent failure and root causes for incidents
- Techniques for root-cause analysis

Day 5: Promoting a positive safety culture

- Introduction to Safety Culture
- Techniques for improving safety culture
- Measuring improvements in safety culture
- Integrating safety culture within the HSE Management System

Registration form on the Conference: Risk Assessment within Production Operations

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