

Risk Assessment within Production Operations

17 - 21 June 2024 London (UK) Landmark Office Space



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REF: C496 DATE: 17 - 21 June 2024 Venue: London (UK) - Landmark Office Space Fee: 5850 Euro

Introduction:

Health, Safety, and Environmental Management Systems are based on a proactive process for incidents prevention as well as reactive monitoring of performance. Risk assessment is required to be applied to all activities that impact on health & safety, production, asset, environment, and the Company reputation

Conference Objectives:

At the end of this conference the participants will be able to:

- · 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
- · Apply advanced techniques for root-cause analysis for incidents

Targeted Audience:

- · Management and those with responsibilities for analyzing risks and incidents
- Production, project, process, mechanical, control, maintenance, and HSE Personnel
- All personnel involved in implementing the CompanyIs HSE Management System

Conference Outlines:

Unit 1: Advanced Risk Assessment Techniques: 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

Unit 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



Unit 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

Unit 4: Advanced Incidents Investigation Techniques:

- 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

Unit 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