



*Training Course:
Advanced Process Risk Management Risk,
Assessment, and Compliance*

*13 - 24 June 2027
Doha (Qatar)*

Training Course: Advanced Process Risk Management Risk, Assessment, and Compliance

Training Course code: MA234859 From: 13 - 24 June 2027 Venue: Doha (Qatar) - Training Course Fees: 7350 € Euro

Introduction

In today's highly regulated and risk-sensitive industries, organizations must adopt an integrated approach that combines **risk management**, **regulatory compliance**, and **process safety** to ensure operational excellence and sustainability. The **Advanced Process Risk Management, Risk Assessment, and Compliance** program is designed to equip professionals with the advanced knowledge and practical skills required to manage risks effectively while ensuring compliance with regulatory frameworks and international standards.

By the end of the program, participants will be able to design, implement, and monitor risk and compliance systems, enhance safety culture, and support decision-making processes that protect organizational assets, reputation, and long-term value.

Course Objectives

By the end of this program, participants will be able to:

- Differentiate between hazard, risk, and risk assessment concepts
- Apply advanced risk assessment methodologies HAZOP, FMEA, ETA, FTA, QRA
- Identify, evaluate, and mitigate risks in process industries
- Balance risk reduction strategies against cost and operational constraints
- Understand regulatory frameworks and compliance obligations
- Develop and implement compliance programs and internal control systems
- Analyze incidents using root-cause analysis techniques
- Understand the role of governance, compliance, and regulatory bodies
- Build and promote a strong compliance and safety culture
- Address risks related to financial crime, fraud, bribery, and money laundering
- Design compliance manuals and monitoring programs
- Integrate risk management with HSE management systems

Target Audience

This program is designed for:

- Risk Management Professionals working in process and industrial environments
- Compliance Officers and Regulatory Professionals
- HSE Health, Safety & Environment Specialists and Engineers
- Operational and Technical Managers in high-risk industries oil & gas, manufacturing, energy, etc.
- Internal and External Auditors
- Board Members and Senior Executives involved in governance and compliance

- Professionals Seeking Advanced Knowledge in risk, compliance, and process safety

Outline

Day 1 - Regulatory Environment & Hazard Identification

- Overview of regulatory frameworks and compliance requirements
- Understanding jurisdictional regulatory environments
- Introduction to hazard identification techniques
- HAZOP methodology and applications
- Practical application of HAZOP in batch and continuous processes

Day 2 - Compliance Frameworks and Risk Integration

- Best practices in regulatory compliance
- Introduction to ISO 19600 Compliance Management Systems
- Integrating HAZOP within enterprise risk management
- Overview of commercial HAZOP software
- Understanding regulatory expectations and obligations

Day 3 - Risk Analysis and Compliance Structures

- Failure Modes and Effects Analysis FMEA
- Event Tree Analysis ETA and decision trees
- Organizational compliance structures
- Roles of board members, auditors, and compliance officers
- Key compliance activities and governance processes

Day 4 - Advanced Risk Quantification & Compliance Functions

- Fault Tree Analysis FTA
- Quantification of ETA and FTA
- Sources of failure data
- Evaluation of individual and societal risks
- Compliance training and conflict of interest management

Day 5 - Quantitative Risk Assessment and Governance

- Introduction to Quantitative Risk Assessment QRA
- Consequence analysis and major hazard evaluation
- Types of fire risks jet fire, pool fire, flash fire, BLEVE
- Governance, risk, and compliance GRC framework
- Internal controls and risk management strategies

Day 6 - Risk Control and Hazard Analysis

- Risk identification, mitigation, and control strategies

- Types of explosions VCE, UVCE, dust explosions, pressure bursts
- Vulnerability and impact analysis
- Modeling of hazardous releases and consequences
- Compliance culture and risk-based approaches

Day 7 - Human Factors and Incident Investigation

- Human error and its role in accidents
- Root-cause analysis methodologies
- Accident investigation techniques
- Identifying management system failures
- Designing effective compliance systems

Day 8 - Compliance Systems and Monitoring

- Developing internal compliance systems
- Establishing policies and procedures
- Compliance monitoring and reporting frameworks
- Record-keeping and documentation requirements
- Managing regulatory changes and interactions

Day 9 - Financial Crime and Safety Culture

- Introduction to safety culture and behavioral safety
- Money laundering and terrorist financing risks
- Role of compliance officers and MLRO
- Fraud prevention, bribery, and corruption
- Techniques to enhance safety culture

Day 10 - Market Conduct, Sanctions, and Integration

- Insider trading and market abuse regulations
- Sanctions and global regulatory frameworks
- Suspicious activity detection and reporting
- Measuring and improving safety culture
- Integrating compliance and safety within HSE systems
- Final case study and program wrap-up

Registration form on the Training Course: Advanced Process Risk Management Risk, Assessment, and Compliance

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