



*Training Course:
Advanced Process Risk Assessment & Risk
Management*

*5 - 9 April 2027
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Advanced Process Risk Assessment & Risk Management

Training Course code: MA6008 From: 5 - 9 April 2027 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 6350 € Euro

Introduction

In today's complex operational environments, organizations must proactively identify, assess, and manage risks to ensure safety, continuity, and performance excellence. Process risk assessment is a critical component in preventing failures, minimizing losses, and supporting informed decision-making.

This program, developed by [Global Horizon Training Center](#), provides participants with advanced methodologies and tools for assessing process-related risks and implementing effective risk management strategies. It focuses on integrating risk assessment into operational processes, enhancing resilience, and supporting continuous improvement.

Participants will gain practical expertise in identifying hazards, analyzing risks, applying quantitative and qualitative techniques, and developing mitigation strategies aligned with international standards and best practices.

Course Objectives

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

- Understand advanced concepts of risk assessment and management
- Identify process hazards and potential risks
- Apply structured risk assessment methodologies HAZOP, FMEA, etc.
- Evaluate risk probability, impact, and severity
- Develop and implement risk mitigation strategies
- Integrate risk management into operational processes
- Monitor and control risks using performance indicators
- Enhance organizational resilience and safety culture

Target Audience

This program is designed for:

- Risk Management Professionals
- HSE Health, Safety, and Environment Specialists
- Process and Operations Engineers
- Project Managers and Technical Managers
- Quality and Compliance Professionals
- Maintenance and Production Supervisors
- Professionals involved in risk assessment and operational safety

Outline

Day 1: Foundations of Process Risk Management

- Introduction to Risk Management Concepts
- Types of Risks in Processes and Operations
- Risk Management Frameworks ISO 31000 Overview
- Risk Identification Principles
- Understanding Hazard and Risk Relationships
- Case Studies on Process Risk

Day 2: Risk Identification and Assessment Techniques

- Hazard Identification Methods HAZID, HAZOP
- Failure Modes and Effects Analysis FMEA
- Risk Assessment Tools and Methodologies
- Qualitative vs. Quantitative Risk Analysis
- Risk Matrices and Risk Ranking
- Developing Risk Registers

Day 3: Advanced Risk Analysis and Evaluation

- Fault Tree Analysis FTA
- Event Tree Analysis ETA
- Bow-Tie Analysis
- Probability and Impact Assessment
- Risk Modeling and Simulation Concepts
- Evaluating Risk Acceptability

Day 4: Risk Mitigation and Control Strategies

- Risk Treatment Options Avoid, Reduce, Transfer, Accept
- Designing Risk Control Measures
- Engineering and Administrative Controls
- Integrating Risk Management into Operations
- Emergency Preparedness and Response Planning
- Monitoring and Controlling Risks

Day 5: Risk Management Integration and Continuous Improvement

- Embedding Risk Management into Organizational Culture
- Risk Performance Monitoring and KPIs
- Continuous Improvement in Risk Management
- Lessons Learned and Knowledge Sharing
- Case Studies and Practical Applications
- Developing Risk Management Action Plans

Registration form on the Training Course: Advanced Process Risk Assessment & Risk Management

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