



*Training Course:
Advanced Risk and Incident Analysis*

*12 - 16 April 2027
Madrid (Spain)*

Training Course: Advanced Risk and Incident Analysis

Training Course code: MA234576 From: 12 - 16 April 2027 Venue: Madrid (Spain) - Training Course Fees: 5775 € Euro

Introduction

In today's high-risk and fast-paced operational environments, organizations must move beyond reactive responses to incidents and adopt a proactive, data-driven approach to risk and incident analysis. This program, developed by [Global Horizon Training Center](#), provides advanced methodologies and tools to systematically identify risks, investigate incidents, and prevent recurrence.

The course integrates risk management frameworks with structured incident investigation techniques, enabling participants to uncover root causes, analyze contributing factors, and implement effective corrective actions. Participants will enhance their analytical capabilities, strengthen decision-making, and contribute to building a resilient and safety-driven organizational culture.

Course Objectives

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

- Apply advanced principles of risk and incident analysis
- Identify and assess complex risks across operations
- Conduct structured and effective incident investigations
- Perform root cause analysis using advanced tools and methodologies
- Differentiate between immediate, underlying, and root causes
- Develop and implement corrective and preventive action plans CAPA
- Improve incident reporting, documentation, and communication
- Integrate incident analysis into enterprise risk management systems
- Support continuous improvement and organizational learning

Target Audience

This program is designed for:

- Risk Management and Compliance Professionals
- HSE Health, Safety, and Environment Officers
- Incident Investigation Teams and Auditors
- Operations and Maintenance Managers
- Engineers and Technical Specialists
- Quality Assurance and Control Professionals
- Professionals responsible for safety, risk, and incident reporting

Outline

Day 1: Risk and Incident Management Frameworks

- Overview of Risk and Incident Management
- Types of Risks and Incident Classifications
- Linking Risk Management to Incident Prevention
- International Standards ISO 31000, HSE Frameworks
- Roles, Responsibilities, and Governance
- Building a Risk-Aware Organizational Culture

Day 2: Risk Identification and Advanced Assessment

- Hazard Identification Techniques HAZID, HAZOP Overview
- Risk Assessment Methodologies Qualitative & Quantitative
- Risk Matrix Development and Risk Ranking
- Failure Modes and Effects Analysis FMEA
- Developing and Maintaining Risk Registers
- Risk Monitoring and Early Warning Indicators

Day 3: Incident Investigation and Root Cause Analysis

- Incident Investigation Lifecycle
- Evidence Collection and Data Analysis
- Interviewing Techniques and Fact-Finding
- Root Cause Analysis Tools:
 - 5 Whys Technique
 - Fishbone Ishikawa Diagram
 - Fault Tree Analysis
- Identifying Immediate, Contributing, and Root Causes

Day 4: Corrective Actions, Reporting, and Compliance

- Developing Corrective and Preventive Actions CAPA
- Evaluating Effectiveness of Corrective Measures
- Incident Reporting Standards and Documentation
- Communicating Findings to Stakeholders
- Legal, Regulatory, and Compliance Considerations
- Lessons Learned and Knowledge Management

Day 5: Proactive Risk Management and Continuous Improvement

- Integrating Incident Analysis into Risk Management Systems
- Trend Analysis and Predictive Risk Management
- Building a Proactive Safety and Risk Culture
- Continuous Improvement Frameworks
- Case Studies and Practical Applications
- Developing Organizational Risk and Incident Action Plans

Registration form on the Training Course: Advanced Risk and Incident Analysis

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

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