



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

*14 - 18 December 2026
London (UK)*

Training Course: Advanced Process Risk Assessment & Risk Management

Training Course code: HE7028 From: 14 - 18 December 2026 Venue: London (UK) - Training Course Fees: 6300 € Euro

Introduction

This program, designed by Global Horizon Training Center, focuses on advanced methodologies for managing risk within high-hazard and process-driven industries.

Modern Health, Safety, and Environment HSE systems require both proactive risk prevention and reactive performance monitoring. Effective risk assessment is critical for protecting safety, production, assets, environmental integrity, and organizational reputation.

This program equips participants with advanced techniques in hazard identification, risk evaluation, and incident investigation. It emphasizes the balance between risk and cost, the importance of safety culture, and the application of analytical tools such as Quantified Risk Assessment QRA and root-cause analysis. Participants will gain practical knowledge applicable to real-world industrial environments, enabling them to strengthen organizational safety and risk management systems.

Objectives

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

- Differentiate between hazard, risk, and risk assessment
- Evaluate various types of operational and process risks
- Apply advanced risk assessment techniques in industrial environments
- Develop and implement risk reduction strategies
- Understand the impact of human factors on incidents
- Apply root-cause analysis techniques for incident investigation
- Utilize analytical tools for risk modeling and decision-making

Target Audience

- HSE Professionals and Safety Engineers
- Risk Management Specialists
- Process and Plant Engineers
- Operations and Maintenance Managers
- Professionals involved in industrial safety and compliance

Outlines

Day 1: Advanced Risk Assessment Techniques - HAZOP

- Introduction to hazard identification and analysis
- HAZOP methodology and applications
- Practical exercises on batch and continuous processes
- Integrating HAZOP into risk management systems
- Overview of HAZOP software tools

Day 2: Fire, Explosion, and Toxic Release Mechanics

- Role of consequence analysis in risk assessment
- Types of fires jet flame, pool fire, flash fire, BLEVE
- Types of explosions VCE, UVCE, pressure burst, dust explosion
- Vulnerability and impact analysis
- Software tools for modeling hazardous scenarios

Day 3: Quantified Risk Assessment QRA & Analytical Tools

- Introduction to QRA principles
- Failure Modes and Effects Analysis FMEA
- Event Tree Analysis ETA and decision trees
- Fault Tree Analysis FTA
- Risk quantification techniques
- Evaluation of individual and societal risk levels

Day 4: Advanced Incident Investigation Techniques

- Human factors and their role in accidents
- Root cause analysis methodologies
- Incident investigation frameworks
- Identifying latent failures and systemic issues
- Practical application of investigation techniques

Day 5: Developing and Promoting Safety Culture

- Introduction to safety culture concepts
- Techniques for improving safety culture
- Measuring and monitoring safety performance
- Integrating safety culture into HSE systems
- Continuous improvement and organizational alignment

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

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

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