

Safety Technology & Risk Management

Amsterdam

10 - 14 November 2025

UK Traininig

PARTNER



Safety Technology & Risk Management

Code: HS28 From: 10 - 14 November 2025 City: Amsterdam Fees: 4900 Pound

Introduction

As technological systems grow more complex, identifying safety hazards and controlling their impact becomes increasingly challenging. Plant managers and engineers are realizing that safety technology and risk management are critical to the smooth operation of engineering and process systems. To meet the ever-evolving international and national safety standards, organizations must proactively address safety risks while maintaining compliance and operational efficiency.

Unsafe systems can result in significant losses, including financial damages due to accidents, production disruptions, legal liabilities, loss of market share, and environmental harm. This course is designed to equip participants with the knowledge and tools to leverage advanced safety technologies and improve risk management strategies.

Course Objectives

By the end of this course, participants will:

- Apply principles of hazard identification and risk assessment to processes and equipment.
- Understand the concept of reliability and implement failure tracing methods.
- Gain a practical understanding of quantitative risk assessment techniques and recordkeeping.
- Provide management with actionable advice on effective risk control strategies.
- Develop safe systems of work that meet international safety standards.
- Identify key safety technologies to reduce risks and improve operational efficiency.
- Promote a proactive approach to hazard analysis and risk mitigation.
- Stay informed on the role of safety and security technology in compliance and risk management.

Course Outlines

Day 1: Hazard Identification

- Why is safety engineering necessary?
- Case studies of major industrial disasters.
- Overview of safety technology systems.
- Techniques for hazard identification and control.
- Criteria for risk tolerability.
- Role of Safety Technology International standards in system design.
- Analysis of safety in chemical and manufacturing processes.

Day 2: Risk Assessment Techniques



- Fundamentals of safety management.
- The safety lifecycle of engineering systems.
- Task-based and equipment-based risk assessment.
- Introduction to HAZOP Hazard and Operability Studies.
- Understanding information technology risk management in safety operations.

Day 3: Machinery and Work Equipment Safety

- Identifying and mitigating machinery hazards.
- Preventing accidents through advanced safety technology tips.
- Examples of HAZOP applications.
- Conducting Failure Mode and Effects Analysis FMEA.
- Addressing human factors and safety analysis to minimize error.

Day 4: Reliability Technology

- Types and causes of system failures.
- Approaches to failure prevention.
- Overview of technology safety rules for equipment maintenance.
- Ensuring reliability in protective systems and controls.
- Role of Safety Integrity Levels SIL in risk management.

Day 5: Consequence Analysis

- Mechanics of fires, explosions, and toxic releases.
- Using dispersion modeling software to assess risks.
- Types of fires and explosions, such as BLEVE and cascading fires.
- Quantitative Risk Assessment QRA and Event Tree Analysis ETA.

Why Attend this Course? Wins & Losses!

- Enhanced Safety through Technology: Learn how to integrate advanced safety technology into your processes and ensure compliance with Safety Technology International standards.
- Improved Risk Management: Gain expertise in managing technology-related risks and develop strategies for effective risk and compliance management.
- Practical Insights: Apply tools like HAZOP, FMEA, and ETA to identify and mitigate safety risks in real-world scenarios.
- Global Standards Compliance: Stay aligned with international safety and reliability standards, reducing legal and operational risks.
- Future-Proof Your Systems: Utilize public safety information technology to adapt to emerging trends in safety and risk management.

Conclusion

The Advanced Safety Technology and Risk Management in Engineering Systems course is your gateway to mastering safety technology, risk assessment, and compliance management. You will gain the knowledge and tools to proactively manage risks, ensure the safety of your systems, and align with global safety standards.

Register now to become a leader in leveraging technology for safety and risk management. Equip yourself with the

PARTNER



skills to protect your organization's assets, people, and reputation while fostering a culture of safety and innovation.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



Salzburg (Austria)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
(Kuwait)



Phuket (Thailand)



Shanghai (China)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City



Seoul (South Korea)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior,
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

