

Comprehensive Safety Technology & Risk Management

Istanbul (Turkey)

10 - 21 May 2026

UK Traininig

PARTNER



Comprehensive Safety Technology & Risk Management

Code: HS28 From: 10 - 21 May 2026 City: Istanbul (Turkey) Fees: 7800 Pound

Introduction

As technological systems become increasingly complex, identifying and controlling safety hazards becomes more challenging. Plant Managers and Engineers are increasingly aware that safety and risk management touch every aspect of the day-to-day operations of their plants and engineering systems. To comply with constantly evolving international and national environmental and economic standards, understanding safety and risk management has become essential.

Unsafe systems can lead to significant financial losses due to accidents, production disruptions, legal repercussions, market share loss, and degradation of both company assets and the environment. In this course, you will learn how to utilize advanced safety technology and risk assessment techniques to enhance the safety of systems and machinery while complying with industry standards.

Course Objectives

- Apply the principles of hazard identification and risk assessment to processes and machinery.
- Understand the concept of reliability and use failure tracing methods.
- Demonstrate a practical understanding of quantitative risk assessment techniques and the data required for records.
- Advise management on the most effective control methods based on risk evaluations.
- Identify the general requirements for developing a safe system of work.
- Recognize relevant international safety standards related to reliability and machinery safety.
- Promote a proactive approach to hazard analysis and risk management.
- Understand how safety technology can integrate into existing systems to prevent accidents.

Course Outlines

Day 1: Introduction to Safety Engineering: Hazard Identification and Control

- Hazard Identification: Why safety engineering is crucial.
- Major disaster examples and how they can be prevented.
- The safety system process: identifying and controlling hazards using safety technology.

Day 2: Risk Tolerability Criteria, Hazard Identification Techniques, and Designing Out Hazards

- Risk tolerability criteria and how to identify hazards using advanced safety technology.
- Hazard identification techniques for eliminating risks in engineering processes.

Day 3: Safety Standards, Safety Analysis in Engineering, Chemical Processes, and



Manufacturing

- Safety standards national and international and their application in engineering systems.
- Applying safety analysis to chemical processes and manufacturing systems using technology safety rules.

Day 4: Risk Assessment Techniques, Safety Management, and Safety in the System Life Cycle

- Techniques for risk assessment and their role in safety management.
- The role of safety technology in the system life cycle and hazard management.
- Using integrated safety management tools to streamline safety processes.

Day 5: Machinery and Work Equipment Safety, Machinery Hazard Identification, and Prevention Methods

- Machinery and work equipment safety: Identifying and preventing machinery-related hazards using industrial safety technologies.
- Examples of HAZOP and failure mode analysis for identifying and mitigating machinery accidents.

Day 6: Human Factors Safety Analysis, Performance, and Human Error

- Human factors safety analysis and their impact on performance and human error.
- Applying technology safety rules to improve human performance and reduce safety-related errors.

Day 7: Reliability Technology, Types and Causes of Failures, Methods of Preventing Failures

- Reliability technology: Understanding failure types and causes.
- Methods for preventing failures using advanced safety technology and reliable system designs.

Day 8: Reliability of Components and Systems, Control Systems, and Safety Integrity Levels SIL

- Assessing the reliability of components and systems.
- Designing control systems with high reliability, and understanding Safety Integrity Levels SIL selection.

Day 9: Consequences Analysis, Mechanics of Fire, Explosion, and Toxic Releases

- Performing consequences analysis for fire, explosion, and toxic releases.
- Utilizing dispersion modeling software to predict and manage these hazards.

Day 10: Quantification of Risk, Event Tree Analysis ETA

- Understanding risk quantification and the use of Event Tree Analysis ETA to evaluate safety hazards.

Why Attend this Course: Wins & Losses!

- Learn how to use advanced safety technology to improve the safety of systems and machinery.
- Improve your skills in risk assessment and safety management using cutting-edge techniques.
- Gain a solid understanding of reliability technology and its application in machinery safety.

- Learn how to integrate safety technologies into existing systems to prevent accidents and ensure compliance with safety standards.
- Develop the skills to advise management on risk control methods and safety solutions.

Conclusion

The "Safety Engineering and Risk Management" course is essential for professionals aiming to enhance their skills in safety analysis and risk management. By attending, you will be able to utilize advanced safety technologies, perform comprehensive risk analysis, and apply best practices in industrial safety technologies. This course equips you with the tools to proactively manage safety risks, making it an indispensable opportunity for anyone involved in safety management and engineering.

Don't miss the chance to advance your career while improving the safety of your operations.



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)



Florence (Italy)



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

Booking.com
Netherlands



OXFAM

Oxfam GB International
Organization,
Yemen



Capital Markets
Authority

Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



مؤسسة قطر
Qatar Foundation

Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



مؤسسة الكويت للتقدم العلمي
Kuwait Foundation for the Advancement of Sciences

KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia

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



المؤسسة العامة للتأمينات الاجتماعية
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.



هيئة تنظيم الكهرباء - عمان
Authority for
Electricity Regulation, Oman

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

