

FIRE SAFETY RISK MANAGEMENT

“Proactively Identifying, Assessing, and Mitigating Fire Hazards in Complex Environments”

Schedule

Date	Venue	Fees (Face-to-Face)
22 - 26 Jun 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Fire risks present significant threats to life, property, operations, and regulatory compliance. Effective fire safety risk management is essential across sectors—from industrial plants and commercial facilities to healthcare, hospitality, and infrastructure. This course provides the tools, standards, and strategies required to evaluate fire hazards and implement control measures that ensure safety and legal compliance.

Participants will gain hands-on experience in assessing fire risks, designing mitigation strategies, understanding applicable codes (NFPA, BS, ISO), and preparing for audits and emergency scenarios.

Objectives

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

- Identify and evaluate fire hazards in buildings, operations, and systems
- Apply fire risk assessment frameworks and industry best practices
- Interpret relevant fire codes and regulatory requirements
- Design fire prevention, detection, suppression, and evacuation systems
- Integrate fire safety into overall health and safety management systems

Why Attend

- Learn how to systematically assess and manage fire risks
- Enhance your understanding of fire codes, regulations, and compliance audits
- Improve fire response readiness through better system design and drills
- Apply global standards such as NFPA, BS 9999, ISO 45001
- Build a fire safety culture across your team and operations

Target Audience

- HSE officers, managers, and safety engineers
- Facility and operations supervisors
- Fire wardens and emergency response team leaders
- Compliance and risk management professionals
- Architects, consultants, and project engineers responsible for safety design

Individual Benefits

Key competencies that will be developed include:

- Fire hazard identification and risk control hierarchy
- Code interpretation and application (NFPA, BS, ISO)
- Emergency planning, evacuation, and fire drills
- Fire detection, alarm, and suppression system knowledge
- Conducting internal fire safety audits and inspections

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced facility safety and fire risk control
- Stronger compliance with fire codes and audit requirements
- Reduced fire incidents and downtime risks
- Better coordination of emergency response protocols
- Integration of fire safety into HSE performance systems

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Fire risk frameworks, case laws, compliance updates
- Case Studies - Industrial fires, audit failures, design errors
- Workshops - Fire hazard assessments, system gap analysis, evacuation planning
- Peer Exchange - Incident response debriefs and lessons learned
- Tools - Fire risk matrix, audit checklist, emergency drill templates

Course Outline

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: Introduction to Fire Risk Management

- Module 1: Fundamentals of Fire Behavior and Combustion (07:30 - 09:30) • Fire triangle, ignition sources, fire spread
- Module 2: Types of Fire Hazards and Classifications (09:45 - 11:15) • Chemical, electrical, structural, operational risks
- Module 3: Fire Safety Legislation and Standards (11:30 - 01:00) • NFPA, BS 9999, local fire codes, ISO 45001 integration
- Module 4: Workshop - Identify Fire Hazards in Your Workplace (02:00 - 03:30) • Use a sample layout or your facility as a case

Day 2: Fire Risk Assessment and Control Measures

- Module 5: Conducting Fire Risk Assessments (07:30 - 09:30) • Risk matrices, likelihood vs severity, documentation
- Module 6: Fire Prevention Strategies (09:45 - 11:15) • Housekeeping, control of ignition sources, equipment design
- Module 7: Fire Detection and Alarm Systems (11:30 - 01:00) • Smoke, heat, flame detectors, control panels, zones
- Module 8: Workshop - Complete a Fire Risk Assessment Report (02:00 - 03:30) • Using provided templates and hazard scenarios

Day 3: Suppression Systems and Equipment

- Module 9: Portable Fire Extinguishers and Their Use (07:30 - 09:30) • Types (A/B/C/D/K), ratings, usage techniques
- Module 10: Sprinkler and Fixed Suppression Systems (09:45 - 11:15) • Wet/dry systems, foam, gas, clean agent systems
- Module 11: Passive Fire Protection Design (11:30 - 01:00) • Fire doors, fireproofing, structural barriers
- Module 12: Workshop - Select Suppression Systems for Given Risks (02:00 - 03:30) • Based on risk profiles and occupancy

Day 4: Emergency Response and Evacuation Planning

- Module 13: Emergency Preparedness and Fire Response Planning (07:30 - 09:30) • Roles, communication, firefighting team formation
- Module 14: Evacuation Procedures and Drill Planning (09:45 - 11:15) • Assembly points, mobility support, alarm response
- Module 15: Fire Safety Training and Awareness (11:30 - 01:00) • Staff induction, posters, toolbox talks
- Module 16: Workshop - Draft an Emergency Evacuation Plan (02:00 - 03:30) • Create floor plans, signage, and instructions

Day 5: Audit, Compliance & Integration

- Module 17: Fire Safety Inspection and Audit Processes (07:30 - 09:30) • Checklists, recordkeeping, reporting
- Module 18: Common Deficiencies in Fire Safety Compliance (09:45 - 11:15) • Documentation gaps, non-functional equipment
- Module 19: Integrating Fire Risk into HSE Systems (11:30 - 01:00) • KPIs, continuous improvement, leadership roles
- Module 20: Final Simulation - Conduct a Fire Safety Audit (02:00 - 03:30) • Group walkthrough of a case study or mock facility

Certification

Participants will receive a Certificate of Completion in Fire Safety Risk Management, validating their ability to identify, assess, and control fire risks in accordance with international standards and best practices.

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