

**Training  
Course**

**Advanced Fire Safety  
Management**

## Course Plan

### Introduction

Fire safety is not just a regulatory requirement; it is a cornerstone of risk management and organizational resilience. This advanced program is designed to provide senior professionals and safety leaders with in-depth knowledge and practical strategies for managing fire risks in complex environments. Through real-world case studies, interactive discussions, and scenario-based simulations, participants will develop the expertise needed to anticipate fire hazards, implement robust prevention systems, and lead effective emergency responses that protect people, assets, and operations.

### Course Objectives:

- ✓ Master advanced principles of fire dynamics and fire behavior in industrial and commercial settings.
- ✓ Develop and implement comprehensive fire safety management systems (FSMS).
- ✓ Analyze risks and create tailored fire prevention and protection strategies.
- ✓ Evaluate fire safety technologies, detection systems, and suppression methods.
- ✓ Lead emergency response teams with confidence under crisis conditions.
- ✓ Ensure compliance with international fire safety standards (NFPA, OSHA, ISO).
- ✓ Integrate fire safety into organizational business continuity and resilience planning.



## Who Should Attend?

- Fire Safety Officers and Inspectors
- Senior Fire Engineer
- Facility Managers and Engineers
- Emergency Response Leaders
- Risk & Compliance Managers
- Senior Executives overseeing safety operations

## Training Methods:

- ✓ Online Video material.
- ✓ Presentation.
- ✓ Live Interactive sessions.
- ✓ Course presenter will make extensive use of all tools that will be needed for the virtual environment.
- ✓ Questions & Answers

## Course Outline:

### Day One

- Fundamentals of Fire Science & Fire Dynamics
- Understanding Combustion and Heat Transfer Mechanisms
- Fire Load Calculations and Risk Assessment Techniques
- Fire Safety Management Systems (FSMS) Framework
- Fire Risk Analysis and Hazard Identification Methods

### Day Two

- Codes, Standards, and Regulatory Compliance (NFPA, OSHA, ISO)
- Fire Prevention Strategies in Industrial & Commercial Facilities
- Advanced Fire Detection Systems (Sensors, IoT, AI Integration)
- Fire Suppression Technologies: Water, Foam, Gas, and Alternatives
- Passive Fire Protection: Building Design and Fireproof Materials

### Day Three

- Active Fire Protection: Sprinklers, Hydrants, and Extinguishers
- Fire Safety in High-Risk Industries (Oil & Gas, Manufacturing, Aviation)
- Electrical Fire Safety and Arc Flash Prevention
- Human Behavior in Fire Emergencies: Psychology & Response
- Emergency Planning, Drills, and Evacuation Strategies

### Day Four

- Crisis Leadership: Command, Control, and Communication
- Business Continuity and Fire Disaster Recovery Planning
- Case Studies of Major Fire Incidents and Lessons Learned
- Risk-Based Approach to Fire Safety Investment
- Digital Tools for Fire Safety Management (Modeling & Simulation)

### Day Five

- Fire Safety in Smart Buildings and Green Constructions
- Auditing and Inspecting Fire Safety Systems Effectively
- Training and Developing Fire Safety Culture in Organizations
- Incident Investigation and Root Cause Analysis
- Future Trends: AI, Robotics, and Innovations in Fire Safety

## Training Details

Course Duration	5 Days
Pre-Schedule	3 – 7 Nov 2025
Venue	Spain – Madrid Perciados Hotel
Training Fees Per Person	KWD 1500 ( One Thousand Five Hundred Only )
Course Fees Include	<ul style="list-style-type: none"> <li>✓ Tuition documentation</li> <li>✓ Curriculum and Training Handout</li> <li>✓ Five star Lunch</li> <li>✓ Completion Certificates</li> <li>✓ Lunch Included</li> </ul>