MERCURY

Fire Protection Specialist

12 – 16 September 2027
Cairo (Egypt)



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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Fire Protection Specialist

Ref: 121317_1027346 **Date:** 12 – 16 September 2027 **Location:** Cairo (Egypt) **Fees:** 3500 Euro

Introduction

The Fire Protection Specialist course equips professionals with the knowledge and skills to prevent, manage, and respond to fire hazards effectively. It covers fire safety systems, risk assessment, and emergency protocols. Participants will learn practical strategies to minimize fire-related risks across various facilities. The course emphasizes regulatory compliance and international fire safety standards. It prepares participants to design and implement fire protection plans. Graduates will gain confidence in safeguarding lives, property, and operations against fire emergencies.

Targeted Groups

This Fire Protection Specialist course targets professionals seeking specialized knowledge and skills:

- Fire safety officers
- Facility and operations managers
- Risk assessment specialists
- Industrial safety personnel
- Emergency response coordinators
- Insurance and compliance auditors
- Construction project managers
- Security and safety consultants

Course Objectives

Participants will achieve the following objectives by completing the Fire Protection Specialist course:

- Understand fire science and combustion principles.
- Identify fire hazards in workplaces and industrial settings.
- Assess fire risks and implement mitigation strategies.
- Design effective fire safety and suppression systems.
- Apply fire detection and alarm technologies.
- Develop emergency response plans for fire incidents.
- Ensure compliance with local and international fire regulations.
- Conduct fire drills and evacuation exercises effectively.
- Analyze real-world fire incident case studies.
- Promote a culture of fire safety within organizations.

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Targeted Competencies

Participants will gain the following competencies during the program:

- Risk assessment and hazard identification.
- Fire prevention strategy design.
- Knowledge of fire suppression systems.
- Emergency response planning.
- Regulatory compliance expertise.
- Fire safety training and awareness development.
- Investigation of fire incidents.
- Use of modern fire detection technologies.
- Reporting and documentation of fire hazards.

Studying Scenarios

In this training, participants will develop their skills through the analysis of the following scenarios:

- Industrial plant fire hazards assessment.
- Emergency evacuation planning in high-rise buildings.
- Fire suppression system selection for warehouses.
- Fire incident analysis in manufacturing facilities.
- Fire safety compliance audits for corporate offices.
- Risk mitigation in chemical storage facilities.
- Coordination with emergency responders during fire drills.

Course Content

Unit 1: Fire Science and Combustion

- Principles of fire behavior and combustion.
- Fire triangle and fire dynamics.
- Heat, fuel, and oxygen interactions.
- Types of fires and classifications.
- Fire growth and spread patterns.
- Common causes of fire incidents.
- Fire chemistry and smoke hazards.

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Unit 2: Fire Risk Assessment and Prevention

- Identifying workplace fire hazards.
- Evaluating fire risk levels.
- Preventive safety measures.
- Fire risk assessment methodologies.
- Safety signage and emergency pathways.
- Regular inspections and monitoring.
- Fire prevention in industrial settings.

Unit 3: Fire Protection Systems and Technologies

- Fire detection systems and alarms.
- Sprinkler systems and suppression equipment.
- Portable extinguishers and specialized tools.
- Smoke and heat management systems.
- Fire-resistant materials and construction.
- Integration of fire protection systems.

Unit 4: Emergency Response and Evacuation

- Designing emergency response plans.
- Evacuation procedures for different facilities.
- Fire drills and training exercises.
- Coordination with emergency services.
- Communication strategies during incidents.
- Incident command and control protocols.

Unit 5: Compliance, Reporting, and Case Studies

- Fire safety regulations and standards.
- Fire documentation and reporting.
- Conducting fire safety audits.
- Investigating fire incidents.
- Lessons from historical fire cases.
- Continuous improvement in fire safety programs.

Final Insights & Key Takeaways

Participants will leave the course equipped to implement comprehensive fire protection strategies. They will confidently enhance organizational safety and compliance.