



Health, Safety and Environment

## Fire Fighting Systems

# Course Introduction

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## Fire Fighting Systems

This course is designed to cover all aspects related to fire safety, fire risk assessment, preparation of fire and safety plans, and the installation, inspection and use of all types of fire facilities such as Fire Alarm Systems, Automatic Fire Fighting Systems, Fire Extinguishers, etc. This course is designed to provide participants with the required knowledge to fulfill the role of Fire Marshal/Fire Commander and update the knowledge of existing Fire Marshals. It will also assist those with practical responsibility for fire safety within buildings/workplace to develop procedures and fire management systems.

## Target Audience

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- Safety Committee Members
- Security personnel / Specialist
- Safety Engineer
- Safety & Training Specialist
- Environmental Specialist
- Emergency Response Specialist

## Learning Objectives

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- The fire triangle and the common causes of fire.
- Correctly and safely select and use of a fire extinguisher
- Fire Risk Assessment
- Fire Alarm systems
- Automatic Fire Fighting Systems (Sprinkler System, FM200 Systems etc.)
- Fire Water Tanks, fire main rings, fire pumps, fire hydrants, Fire Hose Reels, etc.

- Fire Emergency Procedures, Evacuation Plans.
- Commanding and Leading Fire Fighting Operations

## Course Outline

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### • DAY 01

#### **Fire Risk Assessment**

- Fire Prevention
- Causes of Fires / Fire Triangle & Tetrahedron
- Fire Classes (Class A, Class B, Class C, Class D, Class K)
- Different types of Fire Extinguishers

### • Day 02

#### **Fire Extinguishers Rating / Distribution**

- Extinguishers Testing and Rating (UL, CE, etc.).
- Distribution of Fire Extinguishers/Extinguisher per Square Feet or Square Meters.
- Inspection & Maintenance, Re-Filling of fire extinguishers etc. (Based on NFPA # 10)
- Fire Detection Systems, Smoke & Heat Detectors, Flame & Gas Detectors, Different Types of Fire Detection (Conventional, Addressable, Etc. and Inspection Procedures, Intervals, Reporting etc. (Practical Training) – Based on NFPA # 72

### • Day 03

#### **Automatic Fire Sprinkler Systems: · - Different Types of Sprinkler Systems · - Hydraulic Calculations · - Water Demands · - Inspection (Practical Training) – Based on NFPA # 13**

- Automatic Fire Fighting Systems (Carbon Dioxide, FM200, Dry Chemical, Foam, etc.)
- Space to be protected
- Calculating the Exact Quantity of the Fire Extinguishing agents.
- Inspection (Practical Training) – NFPA # 12, 17, and 2000

- Fire Water Systems (Main Water Rings, Fire Pumps, Fire Risers, Hose Reels, Fire Hydrants, etc.). NFPA # 14 - 15

#### • Day 04

##### **Main Water Rings (Loop System, Isolating Valves, Etc.**

- Fire Pumps (Jockey Pumps, Main Pumps, Weekly Inspection
- Procedures, Risers, Dry and Wet, Hose Reels, Fire Hydrants (Inspection based on NFPA # 25) and NFPA # 20
- Inspection Procedures for All Types of Fire Fighting Equipment and Systems. (Practical Training) – Based on NFPA – USA Codes and Standards

#### • Day 05

##### **Fire Emergency Procedures, Fire Emergency Plans, Training of Personnel, Fire Drills.**

- Commanding and Leading Fire Fighting Operations

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 28, 2025	May 2, 2025	5 days	4250.00 \$	UAE - Dubai
July 28, 2025	Aug. 1, 2025	5 days	4950.00 \$	England - London
Oct. 19, 2025	Oct. 23, 2025	5 days	4250.00 \$	Bahrain - Manama
Nov. 9, 2025	Nov. 13, 2025	5 days	4250.00 \$	Oman - Muscat