



Health, Safety and Environment

## Emergency and Fire Fighting Plan and HSE Process

## Course Introduction

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### **The safety of building and utilities**

The purpose of this course is to increase the safety of building and utilities occupants and emergency responders by streamlining fire service interaction with building features and fire protection systems.

The guidance in this course is expected to decrease the injuries to responding and operating fire service personnel. When an incident can be mitigated faster, there is less time for the hazardous situation to grow in proportion. With less potential exposure, employees occupying buildings will be afforded greater protection.

## Target Audience

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- All Safety Professionals
- Safety Committee Members
- Security personnel / Specialist
- Managers and heads of HSEC department
- Technicians and competent personnel
- Human Resource personnel

## Learning Objectives

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- Know all the probable causes of fire outbreak
- Identify the conditions able to cause fire outbreak
- Identify and know how to use a fire extinguisher
- Recognize signals used in case of fire
- Have the required behavior to prevent fire outbreak
- Perform first basic intervention
- Be able to follow an emergency evacuation plan in case of fire outbreak

- Understand an alert and the organisation of an evacuation plan
- Reach the “Zero Accident” objective
- Be able to respect and follow the procedures

## Course Outline

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### • DAY 01

#### **MODULE (01) FIRE OUTBREAKS GENERALITIES**

- 1.1 Introductions
- 1.2 Combustion, fire and fire outbreak
- 1.3 Oxidation
- 1.4 Fire triangle
- 1.5 How does fire work?
- 1.6 Types of fire
  - 1.6.1 Class A: Solid fire
  - 1.6.2 Class B: Liquid fire
  - 1.6.3 Class C: Gas fire
  - 1.6.4 Class D: Metal fire
- 1.7 Principle of fire extinction
  - 1.7.1 Chemical process
  - 1.7.2 Thermal process
  - 1.7.3 Mechanical process
- 1.8 Means of protection against fire outbreak
- 1.9 First intervention: first emergency
- 1.10 Second intervention: professional fire- fighters

### • Day 02

#### **MODULE (02) MOBILE FIRE EXTINGUISHERS**

- 2.1 Definitions
- 2.2 Rules
- 2.3 Fire extinguishers functioning
  - 2.3.1 Extinguishers with permanent pressure
  - 2.3.2 Extinguishers with auxiliary pressure
- 2.4 Category of fire extinguisher (different extinguishing agents)
- 2.5 Use of fire extinguishers (use in terms of quality and quantity)

- 2.6 Maintenance and verification of fire extinguishers
- 2.7 Professional fire-fighters intervention

## **MODULE (03) WORK SITES FIRE OUTBREAKS**

- 3.1 Plausible origin of fire
  - 3.1.1 Mechanical origin
  - 3.1.2 Electrical origin
  - 3.1.3 Hydrocarbons
  - 3.1.4 Negligence and ignorance
- 3.2 Some examples of work sites fires
- 3.3 Industrial factories v. Offices
  - 3.3.1 Causes 3.3.2 Consequences
- 3.4 Prevention and protection
  - 3.4.1 Dispositions
  - 3.4.2 Equipment
- 3.5 Spontaneous inflammations
- 3.6 Friction
- 3.7 Basic procedures for fire-fighting and prevention

### **• Day 03**

## **MODULE (04) EMERGENCY EVACUATION PLAN**

- 4.1 How to behave before leaving the building
- 4.2 Forbidden behavior
- 4.3 At the muster point
- 4.4 Concrete means
  - 4.4.1 An evacuation plan giving the procedures to follow
  - 4.4.2 A luminous signs showing the emergency exit and doors leading outside
  - 4.4.3 A means of sound alarm (sirens)
  - 4.4.4 A identification of the muster point / assembly point
- 4.5 Fire extinguishers
- 4.6 Specific equipments
- 4.7 Alert organization
- 4.8 Evacuation organization
- 4.9 Evacuation procedures

### **• Day 04**

## **MODULE (05) FIRE DEPARTMENT CONNECTIONS**

- 5.1 General
- 5.2 Quantity

- 5.3 Inlets
  - 5.4 Location
  - 5.5 Position
  - 5.6 Marking
  - 5.7 Temporary connections
- **Day 05**

## **MODULES (06) FIRE-FIGHTING EQUIPMENTS INSPECT AND MAINTAIN**

- 6.1 Prepare for installation and servicing operations
- 6.2 Maintain quality of work and promote continuous improvement
- 6.3 Inspect, test and maintain gaseous fire suppression systems
- 6.4 Inspect, test and maintain emergency/exit lighting systems

### **Confirmed Sessions**

FROM	TO	DURATION	FEES	LOCATION
April 7, 2025	April 11, 2025	5 days	2150.00 \$	Virtual - Online
Oct. 6, 2025	Oct. 10, 2025	5 days	4250.00 \$	UAE - Dubai
July 7, 2025	July 11, 2025	5 days	4950.00 \$	Turkey - Istanbul