



## Fire Fighting Systems

### 1. Fire Suppression Systems Installation

- **Water-Based Systems:**

**Sprinkler Systems:** Installation of automatic sprinkler systems using various types of sprinkler heads, such as pendant, upright, and sidewall sprinklers.

**Water Mist Systems:** Utilizing high-pressure water mist systems for areas where water conservation and fine droplets are crucial.

- **Gas-Based Systems**

**Clean Agent Systems:** Installation of clean agent systems, such as FM-200 or Novec 1230, for areas with sensitive equipment where water is not suitable.

**CO2 Systems:** Implementing carbon dioxide systems for fire suppression in enclosed spaces, like electrical or server rooms.

- **Chemical-Based Systems:**

**Foam Systems:** Installing foam-based systems for suppressing flammable liquid fires in areas such as chemical storage or manufacturing facilities.

**Dry Chemical Systems:** Utilizing dry chemical systems for specialized fire risks, such as in paint booths or metalworking areas.



## 2. Fire Alarm Systems:

- **Addressable Systems:**

Implementation of addressable fire alarm systems, allowing for precise identification of the location of a triggered alarm.

Integration with building management systems for a comprehensive approach to emergency response.

- **Conventional Systems:**

Installation of conventional fire alarm systems suitable for smaller facilities, with zones indicating the general location of an activated alarm.

Cost-effective solutions for buildings with less complex layouts.

## 3. Fire Extinguisher Services:

- **Portable Fire Extinguishers:**

Inspection, testing, and maintenance of portable fire extinguishers, including ABC, CO2, and water-based extinguishers.

Refilling or replacement of extinguishers as needed, ensuring compliance with local regulations.

- **Specialized Extinguishers:**

Installation of specialized extinguishers, such as wet chemical extinguishers for kitchen areas or metal fire extinguishers for industrial settings.

Tailoring the selection of extinguishers based on specific fire risks in different zones of a facility.

## 4. Emergency Evacuation Planning:

### Evacuation Signage:

Installation of clear and visible evacuation signage throughout the facility, indicating escape routes and assembly points.  
Ensuring compliance with regulatory standards for evacuation signage.

### Evacuation Drills:

Conducting regular evacuation drills to assess the effectiveness of evacuation plans and the response of occupants.  
Analyzing drill results to make necessary adjustments and improvements to evacuation plans.

## 5. Fire Safety Consulting:

### Code Compliance Audits:

Thorough audits to assess the facility's compliance with local fire safety codes and regulations.  
Offering expert guidance on corrective actions to address any identified non-compliance issues.

### Risk Management Strategies:

Comprehensive risk assessments to identify potential fire hazards and vulnerabilities in the facility.  
Developing and implementing risk management strategies to reduce the likelihood of fire incidents.

## 6. Emergency Lighting Systems:

- **Exit Lighting:**

Installation and maintenance of emergency exit lighting systems for safe egress during power outages or emergencies.  
Compliance with regulations regarding the placement and visibility of exit lights.

- **Emergency Path Lighting:**

- Implementation of emergency path lighting to guide occupants along designated escape routes.



- Use of battery-backed LED lighting for reliability during emergencies.

## 7. Fire Safety Training:

- **Occupant Training:**

Training sessions for facility occupants on fire safety procedures, evacuation routes, and the proper use of firefighting equipment.

Periodic refresher courses to ensure continued awareness and preparedness.

- **Staff Training:**

Training for designated staff members responsible for operating firefighting equipment or coordinating emergency response.

Providing certifications and documentation for trained personnel.

- **Passive Fire Protection:**

### **Firestopping:**

Installation of firestopping materials to seal penetrations in walls and floors, preventing the spread of fire and smoke.

Compliance with building codes and standards for fire resistance.

### **Fire-Rated Construction:**

Design and construction of fire-rated walls, doors, and partitions to compartmentalize fire and limit its spread.

Ensuring that structural elements meet required fire resistance ratings.



Wet Riser System



Fire Sprinklers



Fire Alarm System



ABC TYPE FIRE EXTINGUISHER



Co<sup>2</sup> Type



WATER FIRE EXTINGUISHER



FOAM TYPE



CLEAN AGENT TYPE



MODULAR



MRI



KITCHEN FIRE



ABC TROLLY MOUNTED



Co<sup>2</sup>TROLLY MOUNTED



FIRE EXTINGUISHER BALL



CAR FIRE EXTINGUISHER



**SINGLE HEAD VALVE**



**DOUBLE HEADED VALVE**



**RRL HOSE TYPE-A**



**RRL HOSE TYPE-B**



**BRANCH PIPE SS AND GM**



**HOSE BOX SINGLE DOOR**



**HOSE BOX DOUBLE DOOR**



**HOSE REEL DRUM (RISER MOUNT)**



**HOSE REEL DRUM (SRI MODEL)**



**TWO WAY INLET CONNECTION**



**FOUR WAY INLET**



**INLET BREECHING CAP**