

Emergency

It is defined as:

"An emergency is an urgent, unexpected, and usually dangerous situation that poses an immediate risk to health, life, property, or environment and requires immediate action."

As per the German Red Cross, the emergency is defined as:

"Life threatening condition which requires the administration of life saving measures"



Types of Emergencies



Chemical Accidents

A chemical accident is the unintentional release of one or more hazardous substances that could harm human health and the environment. Such events include fires, explosions, leakages, or the release of toxic or hazardous materials that can cause people illness, injury, or disability.



Civil Disorder

Civil disorder, also known as civil disturbance, civil unrest, or social unrest, is a situation arising from a mass act of civil disobedience in which law enforcement has difficulty maintaining their authority.



Power Outage

A power outage is the loss of the electrical power network supply to an end user. There are many causes of power failures in an electricity network.



Blizzard

A blizzard is a severe snowstorm characterized by strong sustained winds and low visibility, lasting for a prolonged period—typically at least three or four hours.

Types of Emergencies At Workplace

A workplace emergency is an unforeseen situation that threatens your employees, customers, or the public; disrupts or shuts down your operations; or causes physical or environmental damage.

- Fires or Explosions
- Medical Emergencies
- Severe Weather
- Earthquakes
- Major Power Failures
- Hazardous Material Spills

Steps of Emergency Management



Prevention:

Actions were taken to avoid an incident. Stopping an incident from occurring. Deterrence operations and surveillance.

Mitigation:

Refers to measures that prevent an emergency, reduce the chance of an emergency, or reduce the damaging effects of unavoidable emergencies. Typical mitigation measures include establishing building codes and zoning requirements, installing shutters, and constructing barriers such as levees.

Preparedness:

Activities increase a community's ability to respond when a disaster occurs. Typical preparedness measures include developing mutual aid agreements and memorandums of understanding, training for response personnel and concerned citizens, conducting disaster exercises to reinforce training and test capabilities, and presenting all-hazards education campaigns.

Response:

Actions carried out immediately before, during, and immediately after a hazard impact aim to save lives, reduce economic losses, and alleviate suffering. Response actions may include activating the emergency operations center, evacuating threatened populations, opening shelters and providing mass care, emergency and medical care, firefighting, and urban search and rescue.

Recovery:

Actions taken to return a community to normal or near-normal conditions, including restoring basic services and repairing physical, social and economic damages. Typical recovery actions include debris cleanup, financial assistance to individuals and governments, rebuilding of roads and bridges and key facilities, and sustained mass care for displaced human and animal populations.



Fire

Fire is defined as:

"Any instance of open flame or other burning in a place not intended to contain the burning or in an uncontrolled manner."

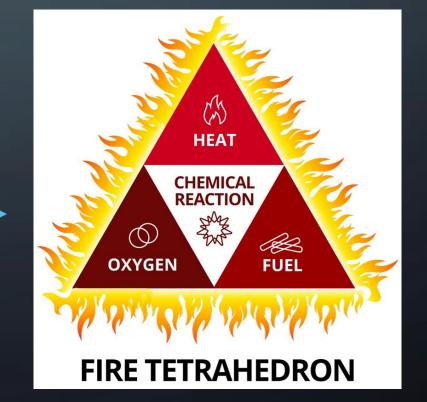
Fire Tetrahedron

- The fire triangle was changed to a fire tetrahedron to reflect this fourth element.
- A tetrahedron can be described as a pyramid which is a solid having four plane faces.

• Essentially all four elements must be present for fire to occur, fuel, heat, oxygen, and a chemical

chain reaction.

Fire Triangle



Common Causes of Fire

Common Causes of Workplace Fires



Faulty
Electrical
Equipment
and Circuits



Negligence and Human Error



Accumulation of Combustible Substances



Deliberate Vengeful Acts



Uncollected Refuse and Waste

Types of Fires

CLASSIFICATION		RISK
A (V)	CLASS A	These are fires that involve solid materials like paper, wood or textiles.
B	CLASS B	These are fires that involve liquids, like oils, petrol or diesel.
»C ™	CLASS C	These are fires that involve flammable gases, such as propane, butane or methane.
D D	CLASS D	These are fires that involve metals, like aluminium, magnesium, titanium or swarf.
E	CLASS E	These are fires that involve live electrical equipment, like computers or phone chargers.
F	CLASS F	These are fires that involve cooking oils and fats, such as in deep-fat fryers.

Fire Extinguisher Types and Uses



Wet Chemical

For use on

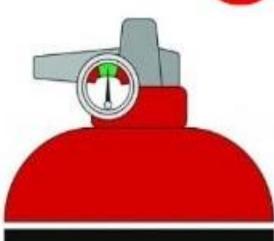


Cooking oil fires



Wood, Paper, Textiles etc.

Discharge entire contents on to fire from at least 1 metre distance



CO₂

For use on



B Flammable liquids



Live electrical equipment



O Do not use on

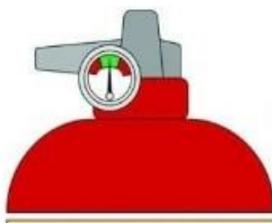


Wood, paper and textiles



Flammable metal

Do not use in a confined space



Foam

For use on



Wood, Paper, Textiles etc



Flammable liquids

Do not use on



Live electrical equipment



For use on



Wood, Paper, Textiles etc



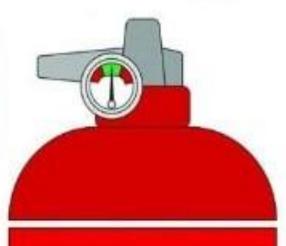
B Flammable liquids



Gaseous fires



Live electrical equipment



Water

For use on



Wood, Paper, Textiles etc



O Do not use on



B Flammable liquid



Live electrical equipment



For use on



Cooking oil fires



Wood, Paper, Textiles etc.

Discharge entire contents on to fire from at least 1 metre distance

1st Class Fire Protection

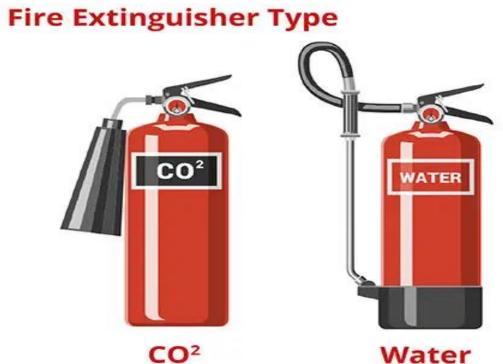
01603 742741 enquiries@1stclassfireprotectionnorfolk.co.uk













Fire Type		Powder	Foam	CO ²	Water	Wet Chemical
CLASS A	Solids (e.g. wood, plastic, paper)			X		X
CLASS B	Flammable Liquids (e.g. solvents, paint, fuels)				X	X
CLASS C	Gases (e.g. butane, propane, LPG)		X	X	X	X
CLASS D	Metals (e.g. lithium, magnesium)		X	X	X	X
ELECTRICAL	Equipment (e.g. computers, servers, TVs)		X		X	X
CLASS F	Cooking Oils (e.g. cooking fat, olive oil)	X	X	X	X	
Some examples of businesses that may need this extinguisher		Outdoor locations, garages, welding workshops, forecourts.	Schools, offices, hotels, shops, hospitals, apartments.	Offices, server rooms.	Schools, hospitals, shops, apartment blocks.	Kitchens, canteens, restaurants.

Workplace Fire Safety Tips

Identify the fire hazards

Identify the people at risk

Evaluate and reduce hazards

Set up an emergency plan and conduct training

Review risk assesments



Important Safety Elements

- Alarms
 - Smoke
 - Carbon Monoxide
- Fire extinguishers
- Residential Fire Sprinkler Systems

How To Use A Fire Extinguisher

Remember the acronym,

"P.A.S.S."

P = Pull the Pin

A = Aim the extinguisher nozzle at the base of the flames.

S = Squeeze trigger while holding the extinguisher upright

S = Sweep the extinguisher from side to side, covering the area of the fire with the extinguishing agent



