1. FIRE

Definition:

It is a chemical reaction of three elements those are Heat, Oxygen and Fuel. When these three elements come together Fire will be produced. If we remove any one of them Fire will be put off automatically.





Fire abbreviation:

For our convenient fire abbreviated as:

- F Find the Place of Fire
 - Inform to the Fire Brigades and Rescue Team
 - R Take Responsibility to Avoid the Fire
- E Extinguish Fire with Various Extinguishers

Classification of fire:

According to the NEBOSH (National Examination Board of Occupational Safety and Health) Fire has been classified into four classes those are...

Class	Пурена	EXAMPLE:	Exclanguisticu	txcini)//shai.Colori.
B	Oll / Gas Fire	Oils: Petrol, Kerosene, Diesel etc. Gases: LPG, LNG, CNG, SNG etc.	Foam	Cream / Yellow
c	Electrical Fire	Faulty Electrical Installation, Short circuit and Over Load	Carbon-di- Oxide (Co ₂)	Black
D	Metal Fire	Gold, Silver, Iron, Copper, Al. Mg. Zn etc	Dry Chemical Powder (DCP)	Blue

- All types of fire extinguishers have some amount of co2 to pressurize the Inner things to move upward.
- Dry Chemical Powder (DCP); contains Sodium by-carbonate (NaHCo₃). DCP is used to extinguish all kinds of Fire.
- LPG: Liquefied Petroleum Gas.
- LNG: Liquefied Natural Gas.
- CNG: Compressed Natural Gas.
- SNG: Synthetic Natural Gas.

Principles of fire:

We have three principles to extinguish the fire. They are as follows,

1. Cooling:

- Remove heat from the place of fire is called cooling.
- 2. Smothering & Blanketing:
- Remove oxygen from the place of fire is called smothering and blanketing.
- 3. Starvation:
- To remove fuel from the place of fire is called starvation.

How does fire spread?

Fire spreads through three ways. They are as follows,

- 1. Conduction:
 - If fire (heat) spreads through solid to solid is known as conduction.
- 2. Convection:
 - If fire (heat) spreads through liquids to liquids is known convection.
- 3. Radiation:
 - If fire (heat) spreads through gases to gases is known as radiation.

PASS method:

Before using the fire extinguisher we have to find out the type of fire and the size of the fire then follow the PASS method to extinguish the fire. In this method first we should check the gauge level of fire extinguisher and then use it.

P – Pull the safety pin of the fire extinguisher.

- A Aim the nozzle at the base of fire.
- S Squeeze the handle of the fire extinguisher.
- S Sweep the steam back and forth & side to side

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