

# ANOTHER TOUCH DRIVER ACADEMY



## LESSON 9

# FIRE FIGHTING

# INTRODUCTION



❖ **DEFINITION:** Fire fighting is the act of extinguishing fires to protect lives, property and the environment.

❖ **KEY GOALS:**

- Save lives
- Protect property
- Preserve the environment





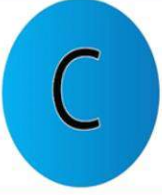







❖ **WHO ARE FIRE FIGHTERS?**

- Trained professionals equipped with knowledge and tools to manage fire hazards.
- Work in teams using specialized equipment.

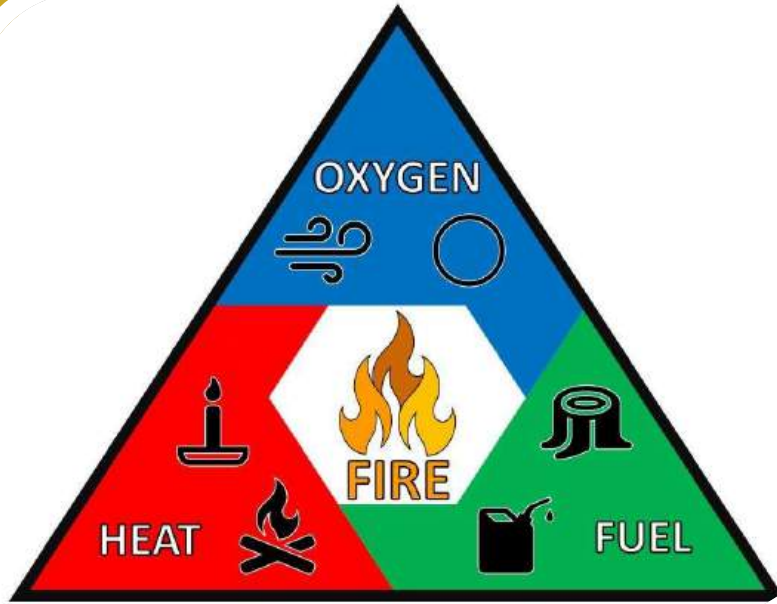
# FIRE TYPES / CLASSES

- **CLASS A:** Fires involving ordinary combustibles like wood, paper and fabric.
- **CLASS B:** Fires involving flammable liquids like gasoline, oils and solvents.
- **CLASS C:** Fires involving electrical equipment
- **CLASS D:** Fires involving combustible metals, like magnesium, titanium, aluminum.
- **CLASS K:** Fires involving cooking oils and fats in kitchens.

		Ordinary Combustibles	Wood, Paper, Cloth, Etc.
		Flammable Liquids	Grease, Oil, Paint, Solvents
		Live Electrical Equipment	Electrical Panel, Motor, Wiring, Etc.
		Combustible Metal	Magnesium, Aluminum, Etc.
		Commercial Cooking Equipment	Cooking Oils, Animal Fats, Vegetable Oils



# THE FIRE TRIANGLE

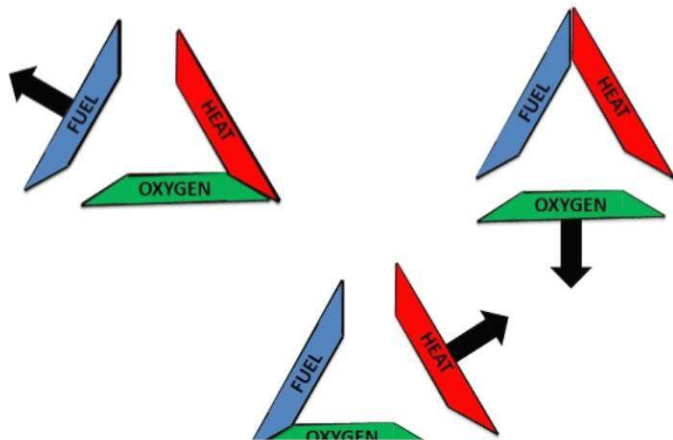


## ➤ THE THREE (3) ELEMENTS OF FIRE:

- **HEAT:** Required to raise materials to their ignition temperature.
- **FUEL:** Combustible materials for fire.
- **OXYGEN:** Sustains the combustion process

## ➤ BREAKING THE TRIANGLE:

- Removing one element can extinguish the fire.



# FIRE SUPPRESSION METHODS

## ➤ COOLING (WATER):

- Reduces the temperature below the ignition point.
- Effective for class A fires

## ➤ SMOTHERING:

- Removes oxygen from the fire
- Blankets, foam or CO<sub>2</sub> extinguishers are used

## ➤ STARVATION:

- Removing the fuel source by isolating flammable materials.

## ➤ CHEMICAL REACTIONS:

- Fire retardants can interrupt the combustion chain reaction.



# FIRE FIGHTING EQUIPMENT

## ➤ PROTECTIVE GEAR:

- Fire-resistant suits, helmets, gloves, boots.
- Breathing apparatus for smoke protection

## ➤ FIRE EXTINGUISHERS:

- **TYPES:** Water, CO2, Dry Powder, Foam, Wet chemical. Used based on the type of fire.

## ➤ WATER HOSES:

- Primary method for extinguishing large fires

## ➤ LADDERS: For reaching high areas

## ➤ FIRE TRUCKS: Carry tools, water and fire fighting personnel





# FIRE SAFETY PROTOCOLS



## ➤ FIRE PREVENTION:

- Ensure safe electrical wiring
- Proper storage of flammable materials
- Regular maintenance of fire safety equipment

## ➤ EMERGENCY EXITS:

- Keep clear and well-marked
- Regular drills for evacuation

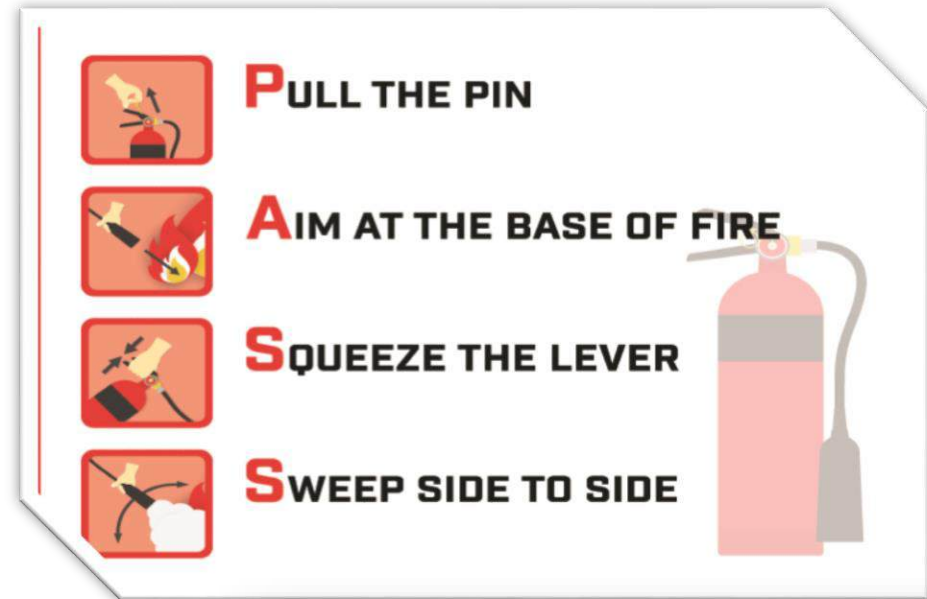
## ➤ FIRE ALARMS AND DETECTORS:

- Early detection and response are key
- Regular checks to ensure functionality.



# FIRE EXTINGUISHER USAGE (PASS method)

- **P:** Pull the Safety pin
- **A:** Aim at the base of the fire
- **S:** Squeeze the handle
- **S:** Sweep the nozzle from side to side





# STEPS TO TAKE IN A FIRE EMERGENCY

- **RAISE THE ALARM:** Notify others of the fire
- **CALL EMERGENCY SERVICES:** Dial the local emergency number for firefighters
- **EVACUATE:** Follow designated evacuation routes and never use elevators.
- **USE FIRE EXTINGUISHERS:** Only if the fire is small and manageable
- **STAY LOW:** Smoke rises, so stay close the floor
- **DO NOT RE-ENTER:** Once out, stay out and let professionals handle the situation.



# FIRE FIGHTER ROLES & RESPONSIBILITIES



- **RESCUE OPERATIONS:** Save trapped individuals
- **FIRE SUPPRESSION:** Extinguish or control fires
- **FIRST AID:** Provide medical assistance to injured victims.
- **INSPECTION AND PREVENTION:** Check buildings for fire hazards and ensure compliance with safety codes.



# CHALLENGES IN FIRE FIGHTING

- **INTENSE HEAT:** Requires proper gear and training
- **LIMITED VISIBILITY:** Smoke can obscure vision
- **TOXIC FUMES:** Smoke and chemicals can be harmful
- **COLLAPSING STRUCTURES:** Fire weakens building, making them prone to collapse.





# CONCLUSION

- Firefighting is crucial for protecting **lives / property**
- Always be prepared and act swiftly during a fire emergency



**THE END**

**THANK YOU FOR  
YOUR  
PARTICIPATION**