

# Hawkestone Sailing Club Fire Extinguisher Training





## Introduction

# Training Objectives

What is **FIRE**?

The Fire Triangle

Extinguishment Theory

Classes of Fire

Causes of Fire

Reporting a Fire Emergency

Making the "Right" Decision

Quick-Check

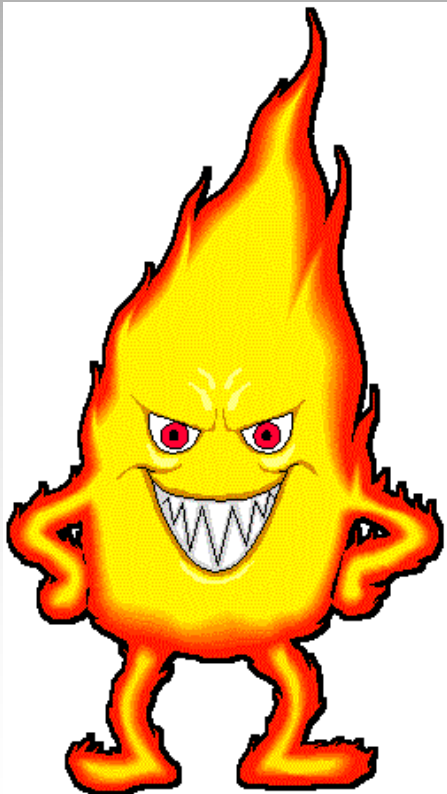
How to use Portable  
Fire Extinguishers



## **Portable Fire Extinguisher Safety**

# What is Fire?

A rapid chemical reaction known as combustion which occurs when fuel and oxygen are brought together with sufficient heat to cause ignition.



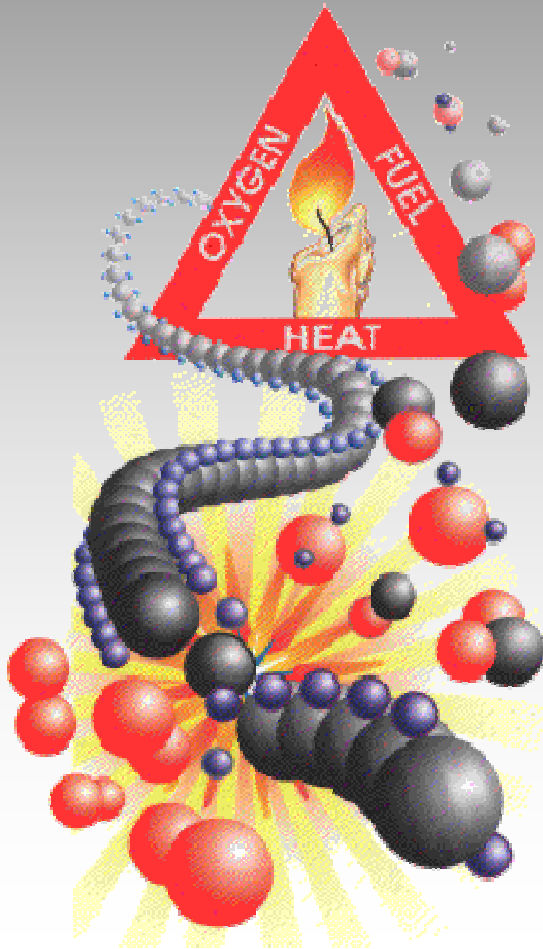
# The Fire Triangle



Any combustible material such as: solid, liquid, or gas. Most solids and liquids must vapourize before they will burn.



Sufficient oxygen must be present in the atmosphere surrounding the fuel for fire to burn.

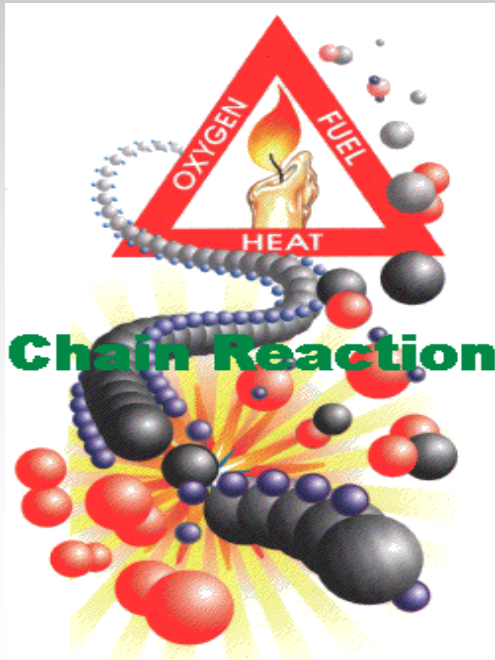


# Fire Triangle



Sufficient heat energy must be applied to raise the material to its ignition temperature.

Ex: Spark, Arks, Flames, Friction etc.



This reaction can occur when all three of the above elements are present in the proper conditions & proportions.

# Extinguishment Theory

Reduce Oxygen

Remove Fuel

Remove Heat

Inhibit Chemical  
Chain Reaction





# Portable Fire Extinguisher Safety

**Causes of Fire**  
Electrical  
Improper Storage  
Housekeeping  
Space Heaters  
Cleaning Supplies  
Construction  
Flammable &  
Combustible Liquids  
Machinery



# Portable Fire Extinguisher Safety

## Reporting a Fire Emergency

**Yell "Fire Fire Fire"**

**If at sea place boat so fire is down wind**

**Attack fire with Fire extinguisher**

**Prepare to evacuate the boat if needed**

**Radio "Mayday" "Mayday" "Mayday" on Channel 16 and give following information**

- **Boat Name**
- **Crew on board**
- **Location**
- **Fire Condition**
- **Your actions and intentions**



# Fire Safety In Harbor

- If you encounter a Fire in the harbor
- Yell “Fire , Fire , Fire”
- Immediately evacuate the boats
- If safe attack fire with Fire Extinguishers
- Have someone Call 911
- Give the following information



# Fire Safety In Harbor

- If safe to do so remove all boats surrounding vessel on fire
- Have club members muster in safe location until advised it is safe to return to their vessels



# Portable Fire Extinguisher Safety

## MAKING THAT "RIGHT" DECISION

You are trained in the use of extinguishers

You know what is burning

Fire is not spreading rapidly

Smoke and heat have not filled the area

You have a clear path of escape

Follow your instincts!



# Portable Fire Extinguisher Safety

## QUICK-CHECK

Is it Ready To Use?



# Portable Fire Extinguisher Safety

## HOW TO USE A FIRE EXTINGUISHER

### The P.A.S.S. Method

It is easy to remember how to use a fire extinguisher if you can remember the acronym PASS, which stands for **Pull**, **Aim**, **Squeeze**, and **Sweep**.

**Pull the Pin**



Allows you to operate the extinguisher

**Test the extinguisher in a safe area before proceeding!**

# Portable Fire Extinguisher Safety

## HOW TO USE A FIRE EXTINGUISHER

### The P.A.S.S. Method

It is easy to remember how to use a fire extinguisher if you can remember the acronym PASS, which stands for Pull, Aim, Squeeze, and Sweep.



**Aim @ the Base of Fire**

Point the extinguisher nozzle (or hose) at the base of the fire



# Portable Fire Extinguisher Safety

## HOW TO USE A FIRE EXTINGUISHER

### The P.A.S.S. Method

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**Squeeze the lever**

This discharges the extinguishing agent. Releasing the handle will stop the discharge

# Portable Fire Extinguisher Safety

## HOW TO USE A FIRE EXTINGUISHER

### The P.A.S.S. Method

It is easy to remember how to use a fire extinguisher if you can remember the acronym PASS, which stands for Pull, Aim, Squeeze, and Sweep.



**Sweep from side to side**

Moving carefully toward the fire, keep the extinguisher aimed at the base of the fire and sweep back and forth until the flames appear to be out. Watch the fire area. If the fire re-ignites, repeat the process.

# **Portable Fire Extinguisher Safety**

## **TYPES OF FIRE EXTINGUISHERS**

**CLASS OF FIRE THEY CAN BE  
USED ON**

# DRY CHEMICAL



## Size

2½ lb to 30 lb  
(1 kg to 14 kg)

## Application

Ordinary Base —  
Classes B and C

Multipurpose —  
Classes A, B, and C

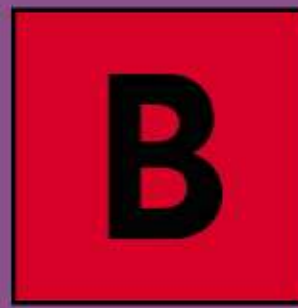
## Operating Principle

Stored Pressure  
or Gas Cartridge

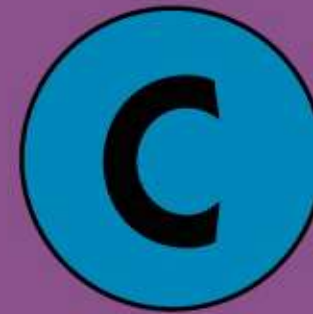
# EXTINGUISHER MARKINGS



**Ordinary  
Combustibles**



**Flammable Liquids  
and Gases**



**Live Electrical  
Equipment**

# TYPICAL PICTOGRAPHS



Pictographs for extinguishers suitable for Class B and Class C fires, but not for Class A fires



Pictographs for extinguishers suitable for Class A fires, but not for Class B and Class C fires



Pictographs for extinguishers suitable for Class A, B and C fires

# Practical Fire

- Remain up wind
- Pull pin and test extinguisher towards fire
- Use **P.A.S.S.** technique
- After extinguishment back away from fire
- Watch your footing



# Conclusion

