

Fire Extinguishers & Basic Safety

TOPICS

- Safety Precautions
- Types & Classes of Fire
- Fire Extinguisher Use
- Evacuations



YOUR PERSONAL SAFETY

- Your personal safety is the NUMBER 1 priority
- Make sure authorities are notified and on the way BEFORE you attempt to extinguish a fire
- You are NOT required to fight a fire
- Make sure fire or other obstructions will not impede a quick exit
- Be sure the fire extinguisher is designed to fight the type of fire you encounter...

TYPES & CLASSES OF FIRES DEPENDS ON FUEL SOURCE

Class A – Ordinary Combustibles

Wood, paper, cloth, rubber

Class B – Flammable Liquids Gasoline, paint thinners, propane

Class C – Electrical

Appliances, switches, power tools

Class D – Combustible Metals

Magnesium, potassium, sodium (volatile reaction to water)

Class K – Kitchen
Oil, grease, fat



The most common fire extinguishers are designed to fight these classes of fire



SPECIAL EXTINGUISHERS

◆ CO₂ – For Class B & C

Usually has a bell-shaped cone attached to the end of the hose Class A fires will reignite

Halogenated – For Class A, B & C

Generally used to protect sensitive equipment, such as computers and electronics

 Both of these types do not leave a residue, which can harm electronics

Water Extinguishers – For Class A Only Less common, typically silver, and much larger. Can cause flammable liquids to spread, and creates shock hazards on electrically charged equipment and circuits

A SPECIAL NOTE ON CHEMICAL FIRES:

In fires involving chemicals, the fumes and reactivity of the chemical(s) is often more dangerous than the flames.

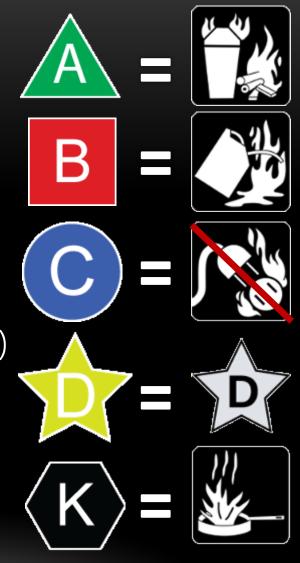
If unsure of the nature of chemicals involved in a fire, do not attempt to extinguish it



FIRE CLASS LABELS OLD - VS - NEW

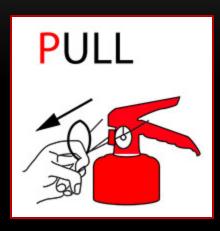
- The class of fire an extinguisher is designed for is indicated by symbols on the cylinder label
- New extinguishers use pictograms instead of shapes & letters (old style)
- ❖ A Red Line over a pictogram means the extinguisher cannot be used on that class of fire

(The example to the right indicates the extinguisher is not designed for an electrical fire)

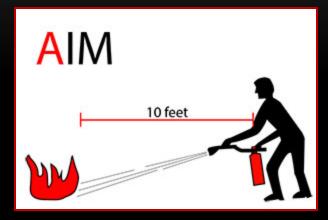


USING A FIRE EXTINGUISHER REMEMBER P.A.S.S. ACRONYM

- Pull the pin this pin keeps the extinguisher from discharging accidentally
- Aim at the base of the fire, stay 10 feet back
- Squeeze the handle to release the extinguishing agent
- Sweep from side to side at the base of the fire until it is out









FIRE EXTINGUISHER TIPS

- Familiarize yourself with extinguishers today. Don't try to read through instructions in an emergency
- Attack a fire within the first two minutes to increase your chances of bringing the fire under control
- Never fight a fire larger than a waste basket
- Most extinguishers function for less than 40 seconds
- When in doubt, GET OUT!



WHEN IN DOUBT...



EVACUATION

BEFORE AN EVACUATION

- Review <u>Emergency Procedures</u> <u>Handbook</u>, page 9
- Learn the Emergency Evacuation Checkpoint for your building
- Familiarize yourself with all building exits and stairwells
- Keep alarm pulls and extinguishers clear of obstructions
- Plan multiple escape routes
- Use Evacuation Plan diagrams, usually posted near the elevator

DURING AN EVACUATION

- Leave immediately
- Avoid smoke
- Follow building evacuation plan
- Do not use elevators
- Feel doors for heat before opening. If hot, do not proceed
- Close, but do NOT lock, doors as you exit. This hinders search & rescue.
- Proceed down stairs to ground or exit floor. Never go up.

EVACUATION (CONT.)

IF TRAPPED:

- Take shelter in an enclosed stairwell. They are designed to burn last.
- Stuff clothes, towels or use tape to cover cracks around doors and vents.
- Stay low to the floor. Breathe though a damp rag if available.
- Call 911 or University Police (972-2093) and tell them where you are.
- Signal for help from a window. Do not jump. Do not break the window.
- Be patient and do not panic.

AFTER AN EVACUATION

- Once out, stay out
- Report to your Emergency Evacuation Checkpoint
- Report locations of anyone trapped in the building to authorities
- Only re-enter after the fire department gives the all-clear

REVIEW

Stay Safe:

- YOUR PERSONAL SAFETY always comes first
- Notify authorities before attempting to control a fire

Be Ready:

- Familiarize yourself with building layouts, exits and evacuation plans
- Learn about fire extinguishers in your building, and the classes of fire they are designed to fight

Know Your Limitations:

- Remember, you are NOT required to fight a fire
- If the fire is larger than a waste basket, leave it to the fire department

QUESTIONS?

Contact University Safety & Emergency Management:

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Email – <u>jcarvell@astate.edu</u>

