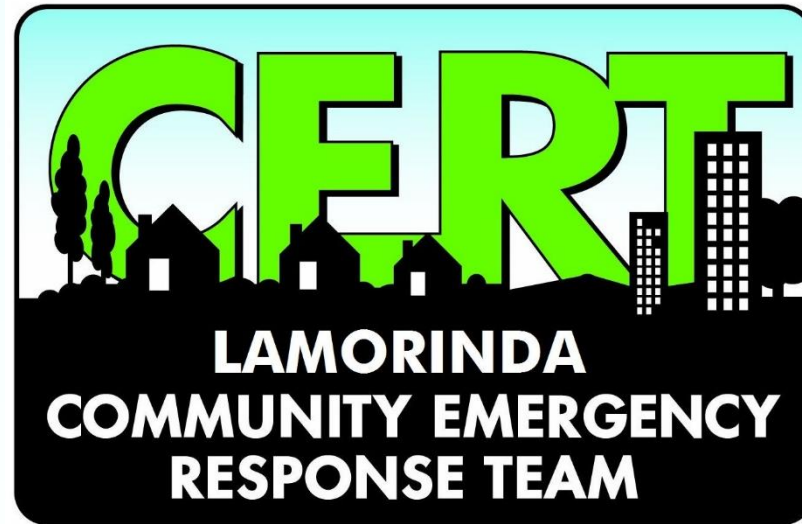


Community Emergency Response Team



Community Fire Safety Presentation

The Fire Triangle



Three things must be present at the same time to produce fire:

1. **Oxygen** to sustain combustion
2. **Heat** to reach ignition temperature
3. **Fuel** or combustible material



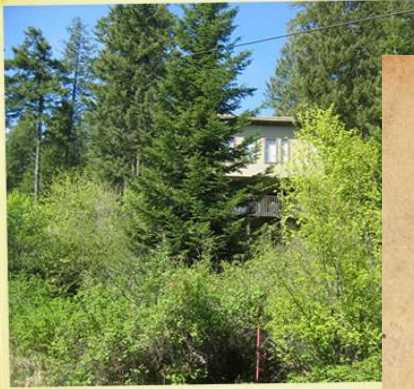
Together, they produce the chemical reaction that is fire



Take away any one of these things and the fire will be *extinguished*



Reduce Home Fuels



one features



fireprone features



fireprone features



Be “Firewise” around your home
and neighborhood
www.firewise.org

Natural Gas, Carbon Monoxide and Propane



Natural gas is *lighter* than Air

- Accumulates near the ceiling



Carbon Monoxide (CO) is *almost same* as Air

- Diffuses into the air
- Rises slowly in warm air currents



Propane is *heavier* than Air

- Accumulates near the floor



All are Asphyxiants and displace oxygen in the lungs and blood



Call 9-1-1 first!



Put out small fires,
this size



Prevent additional fires

Fire Suppression Resources

👮 Local fire department

👮 Fire alarm systems

👮 Sprinkler systems

👮 Interior wet
standpipes with hose

👮 **Portable fire
extinguishers**



Fire Suppression Don'ts

- 👮 Don't get too close
- 👮 Don't try to fight a fire alone
- 👮 Don't try to suppress large fires
- 👮 Don't enter smoke-filled areas







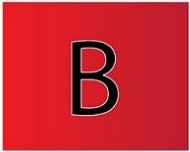

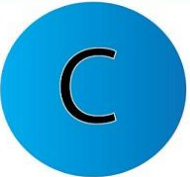





Fuels are things that will burn



There are three main classifications of fuels

- Two more for commercial environments

Classification of Fuels

		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

Fire Extinguisher Types

Standard ABC Extinguishers

		Water	Foam	Dry Chemical	Carbon Dioxide	Wet Chemical	Clean Agent (Halogenated)	Dry Powder
A	Ordinary Combustible Materials	✓	✓	✓*	✗	✓	✓*	✗
B	Flammable Liquids and Gases	✗	✓	✓	✓	✗	✓	✗
C	Energized Electrical Equipment	✗	✗	✓	✓	✗	✓	✗
D	Flammable Metals	✗	✗	✗	✗	✗	✗	✓
K	Cooking Oils and Greases	✗	✗	✗	✗	✓	✗	✗

* not all models work on Class A fires

Choosing a Fire Extinguisher



Typical ABC Fire Extinguisher specifications

Size	2.5	5	10
Height	14.87	15.25	18.94
Width	5.5	7.25	7.75
Depth	3	4.25	5.25
Weight Pounds	5.8	10.4	13.3
Nominal Discharge Time, Seconds	9.5	14	22
Discharge Range, Feet	10-15	12-18	16-20
Rating	1-A:10-B:C	3-A:40-B:C	4-A:80-B:C



Source – Badger Fire Protection

Where to Store a Fire Extinguisher



Mount your fire extinguishers between things that catch fire and an exit. Always have a safe exit available behind you.



Extinguishers should be mounted **on brackets or in wall cabinets with the carrying handle placed 3-1/2 to 5 feet above the floor. Have nothing in front of the extinguisher.**

Parts of a Fire Extinguisher



Parts of a Fire Extinguisher

- 🧯 Pressure gauge indicating a full extinguisher



Fire Extinguisher Rating / Labeling



Labels show the class of fire and the amount of extinguishing agent.

- 1A is equivalent to 1.25 gallons of water
- 10B can cover roughly 10 square feet



Maintenance of Fire Extinguishers



MYTH

Every six months, turn them over a few times to prevent caking of the powder

Fire extinguisher manufacturers agree that this is not needed and may, in fact, be harmful

Maintenance of Fire Extinguishers



Replace if 10 years or older

- Most extinguishers do not have a date code. Use a marker and put your purchase date on the bottom.



Replace with a metal head, not plastic



Where to buy or service? Look in the yellow pages

Use the buddy system for all activities, especially fire safety!



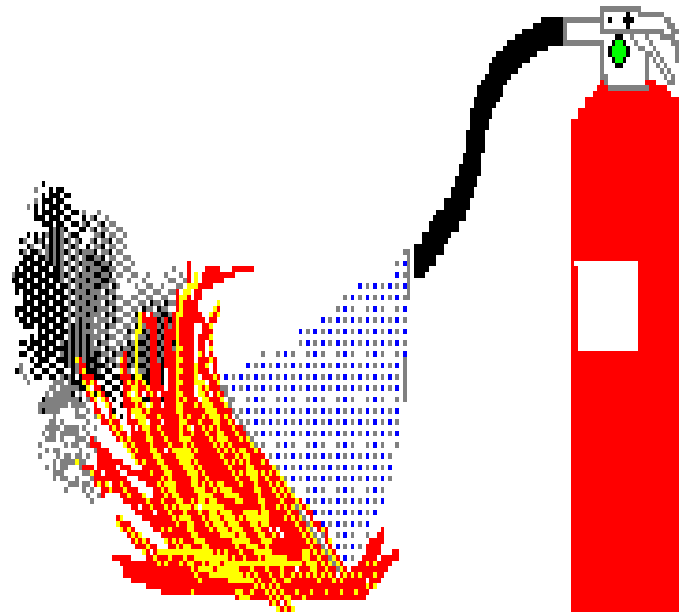
How to Use a Fire Extinguisher

Pull

Aim

Squeeze

Sweep

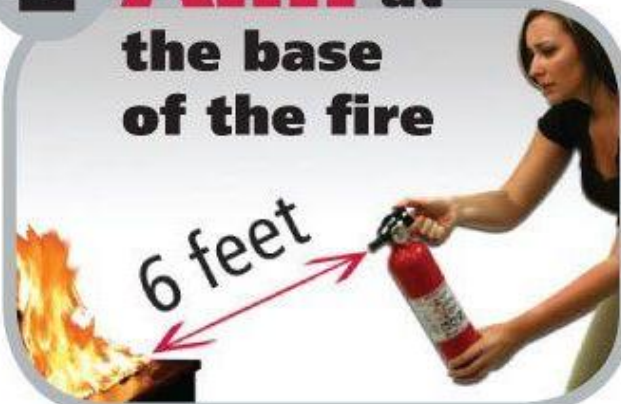


How to Use a Fire Extinguisher

1 Pull
the pin



2 Aim at
the base
of the fire



3 Squeeze
the handle



4 Sweep
from side
to side



How to Use a Fire Extinguisher

- 🧯 Size-up fire before you decide to fight it. Be upwind!
- 🧯 Before approaching a fire, have pins pulled on both extinguishers (yours and your buddy's)
- 🧯 Test the extinguishers before approaching any fire to be sure they work
- 🧯 LEAD :: BUDDY
COMMAND RESPONSE
Ready :: Ready
Going in :: Going in
Backing out :: Backing out
- 🧯 Communicate!



How to Use a Fire Extinguisher



Start using the extinguisher from a safe distance away, about 8 feet and then move forward



Keep about 6 feet between you and the fire

Firefighting Resources



Flow at 40 PSI

100 Foot Hose

1/2" Hose 6 GPM

5/8" Hose 11 GPM

3/4" Hose 18 GPM

Double the length – Half the flow

What if you don't have
an extinguisher?

Try "creative" resources
or confinement



Questions ?

