

California State University Research Foundation

Fire Prevention and Safety

What Causes Fire?

- Fire is a chemical reaction
- Fire requires 3 elements to exist
 - I. Oxygen
 - II. Fuel
 - III. Heat

This is known as the fire triangle. Remove any one of the elements, and there is no fire.

Classes of Fire

- Class **A** Fire- Fire in ordinary combustable materials
- Class **B** Fire- Fire in flammable liquids
- Class **C** Fire- Fire in energized electrical equipment

Classes of Extinguishers

- Class A extinguishers- For ordinary combustable materials
- Class B extinguishers- for flammable liquids
- Class C Extinguishers- For energized electrical fires
- **Match the extinguisher class to the fire**
- Multi-purpose extinguishers: A B C extinguisher will work on all classes –2A:10BC

Operation

- Report emergency first! (9-1-1)
- Evaluate the size of the fire
- **Do not** attempt to fight a fire larger than one cubic yard (A campus trash can or desk chair for example).
2A:10BC- (2 cubic yards A: 10 cubic yards B&C fires)
- **Do not** let the fire get between you and your exit.
- Get no closer than five feet for CO2 or 15 feet for dry chemical.

How to Operate Fire Extinguisher (PASS)

- Pull the pin
- Aim at the base of the fire
- Squeeze the trigger
- Sweep from side to side