



Fire Safety

Community Emergency Response Team



Introduction and Overview

The role of CERTs in fire safety:

- Put out small fires.
- Prevent additional fires.
- Shutoff utilities.
- Assist with evacuations where necessary off utilities.
- Assist with evacuations where necessary.





Unit Objectives

- Explain the role of CERTs in fire safety.
- Identify and reduce potential fire risks in the home and workplace.
- Conduct a basic size-up for a fire emergency.
- Understand basic safety precautions. Identify hazardous materials in the home and community.
- Extinguish small fires using a fire extinguisher.



The Fire Triangle

- Heat
- Fuel
- Oxygen





Fire Chemistry

Classes of fire:

- A: Ordinary combustibles
- B: Flammable and combustible liquids
- C: Energized electrical equipment
- D: Combustible metals



Reducing Fire Hazards in Home and Workplace

Electrical Hazards

- Avoid the “electrical octopus.”
- Don’t run cords under carpets.
- Replace broken or frayed cords.
- Maintain appliances.





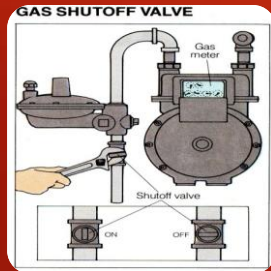
Reducing Fire Hazards in Home and Workplace

Natural Gas Hazards

- Install a natural gas detector.



- Locate and label gas shutoffs.





Reducing Fire Hazards in Home and Workplace

Flammable Liquid Hazards

- Read labels.



- Use L.I.E.S storage procedures (Limit, Isolate, Eliminate, Separate)





CERT Sizeup

Answer these questions:

- Can my buddy and I fight the fire safely?
- Do we have the right equipment?
- Are there other hazards?
- Is the building structurally damaged?
- Can we escape?



CERT Sizeup

1. Gather Facts
2. Assess Damage
3. Consider Probabilities
4. Assess Your Situation
5. Establish Priorities
6. Make Decisions
7. Develop Plans of Action
8. Take Action
9. Evaluate Progress





Firefighting Resources

Resources available:

- Portable fire extinguishers



- Confinement
- “Creative” resources



Types of Fire Extinguishers

- Water



- Carbon Dioxide



- Dry Chemical



- Specialized





P.A.S.S.

- Pull
- Aim
- Squeeze
- Sweep





Fire Suppression Safety

Do:

- Use safety equipment
- Work in a buddy system
- Have a backup team
- Have two ways to exit
- Maintain a safe distance
- Overhaul the fire





Fire Suppression Safety

Don't :

- Try to suppress large fires
- Get too close
- Fight it alone
- Enter smoke-filled areas

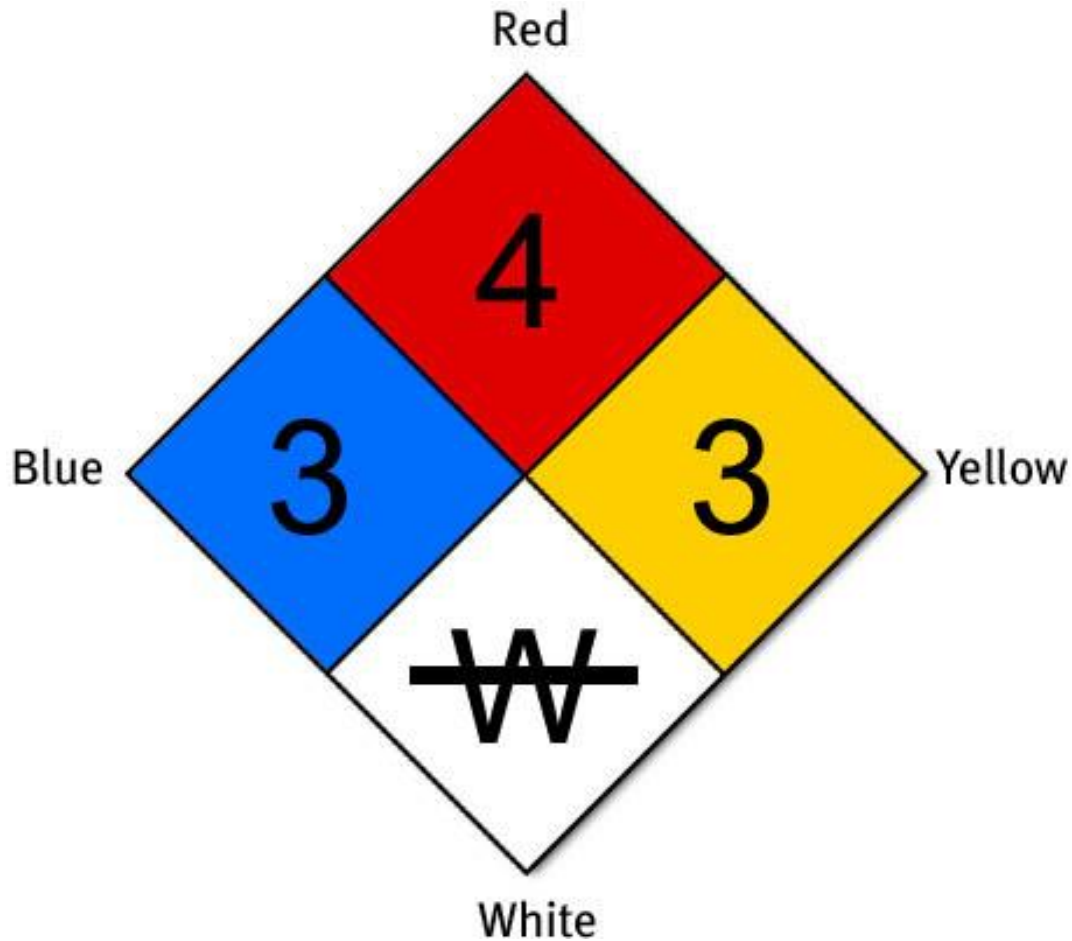




Hazardous Materials...

- Corrode other materials
- Explode or are easily ignited
- React strongly with water
- Are unstable when exposed to heat or shock
- Are toxic to humans, animals or the environment

Identifying Stored Hazardous Materials



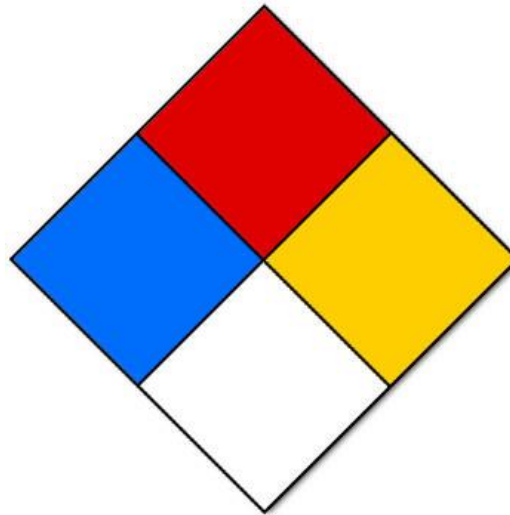
Identifying Stored Hazardous Materials



NFPA 704 Diamond-White Quadrant:

W Shows unusual reactivity with water

OX Possesses oxidizing properties



Identifying Stored Hazardous Materials



Orange



Red



White



Red



Red &
White



Red &
White



Blue



Yellow



White



Yellow &
White



Black &
White

Identifying Stored Hazardous Materials

