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Community Emergency Response Team

- Personal safety is ALWAYS the number one priority
- Show up prepared
 - Wear appropriate clothing and footwear, have WATER
 - Wear PPE your personal protective equipment ...gloves, helmet, goggles, mask, boots, etc.
 - > Have at least one communications device: cell, radio, etc.
- Work as a team
- Size-up maintain situational awareness
- The CERT goal is to do the Greatest Good for the Greatest Number
- Hope for the best but plan for the worst!

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Unit Objectives

- Identify and reduce potential hazards from fire, utility, and hazardous materials at home and in the community
- Explain the role CERTs play in fire safety and response, including the CERT sizeup process and minimum safety precautions
- Extinguish a small fire using a fire extinguisher

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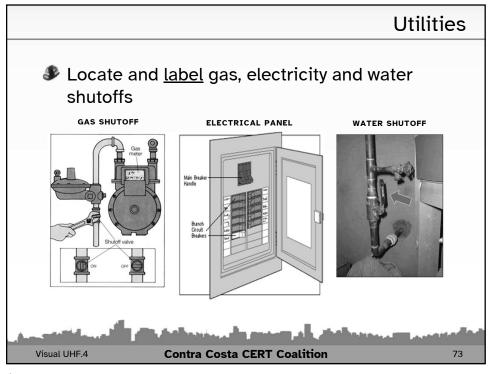
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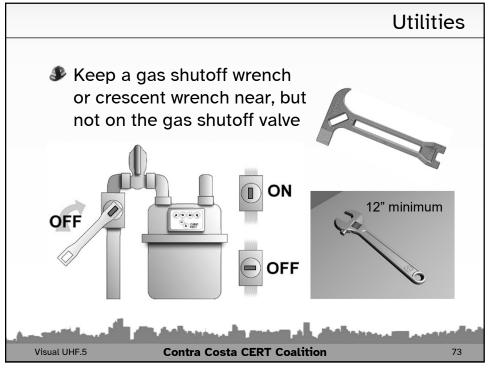
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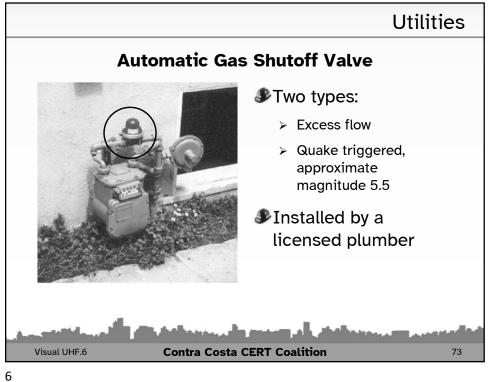
UTILITIES

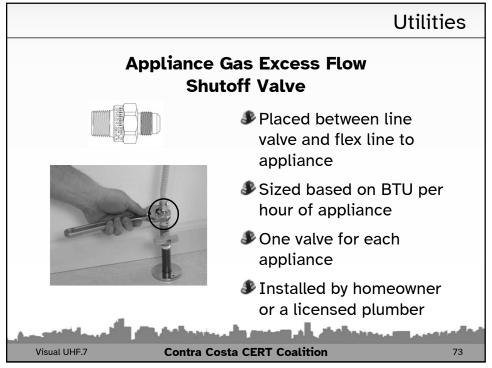
Locating and Managing Utilities Following a Disaster

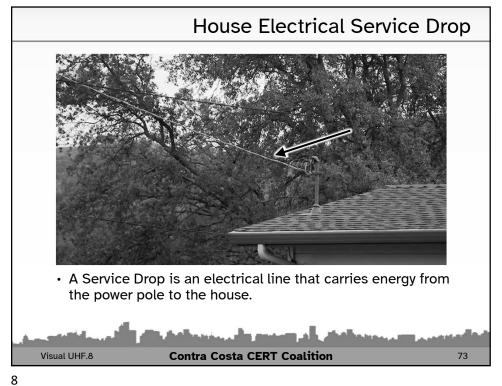
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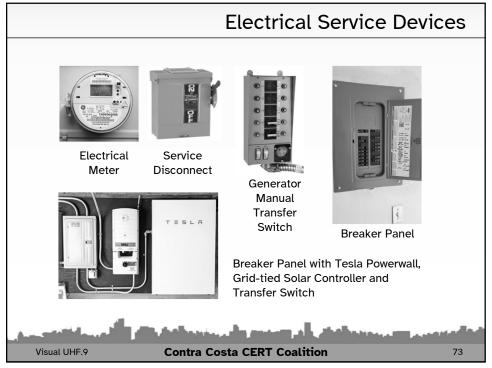


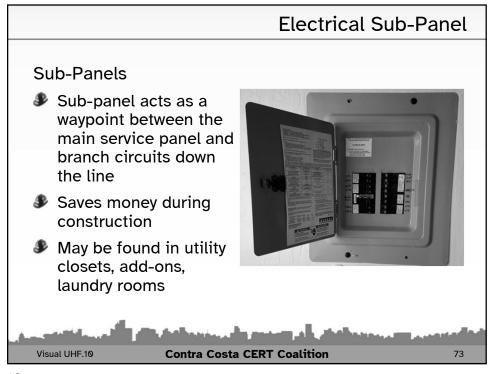


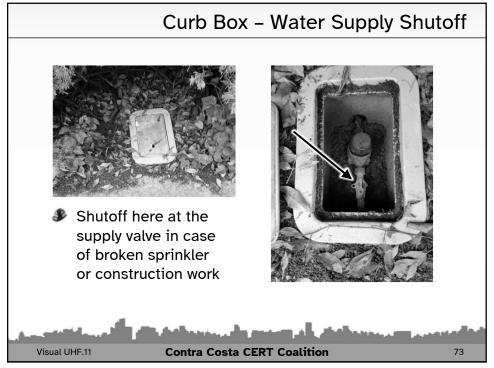


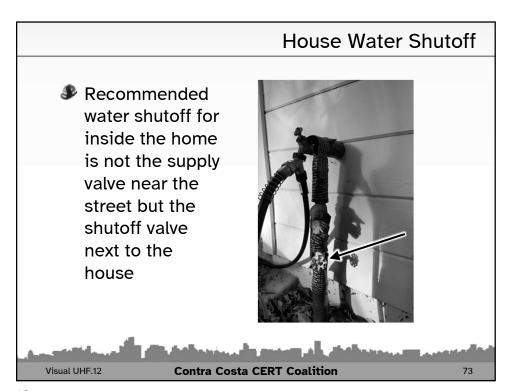


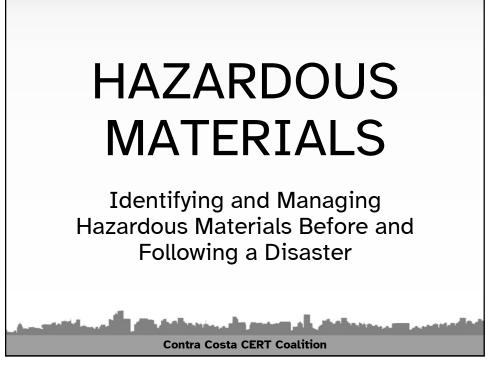












Home Chemistry

When storing chemicals, use the acronym

L. I. E. S.

- Limit, Isolate, Eliminate, Separate
- Store gasoline safely





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L. I. E. S.

- Some common household chemicals that should never be mixed or stored together:
 - Bleach with Acid Toilet Bowl Cleaners
 - Bleach with Vinegar
 - ➤ Bleach with Ammonia
 - Highly Alkaline Products with Highly Acidic Products
- Drain cleaners are frequently made from sodium hypochlorite which is chlorine bleach. Other common ingredients are acids like hydrochloric and sulfuric and caustic chemicals such as lye and caustic soda

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Getting Rid of Chemicals

Need to get rid of 'stuff'?

- Household hazardous waste disposal is possible for residents, normally AT NO CHARGE, at many places in the Bay Area. For the nearest location, search the web for "Household Hazardous Waste"
- Fire extinguishers that are no longer in use are considered Hazardous Waste by Federal Law and must be taken to a hazardous waste disposal site. Most fire departments cannot accept used extinguishers

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Should I Eat / Drink That?

- Poison Control
 - Toddler, dog or you eat pills?
 - People (800) 222-1222 (free) Poison.org
 - Animals (888) 426-4435 (not free, \$65.00)

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Old Drugs

Disposal of unused medications / old pills

- Disposal of pharmaceuticals into sewers has become a serious public health concern. It can allow medications to make their way into regional water sources by passing through wastewater treatment plants
- There is disagreement between the FDA and most local sanitary districts. Most local districts say do not flush
- Many local law enforcement offices and pharmacies have collection boxes for unwanted drugs



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Hazardous Materials





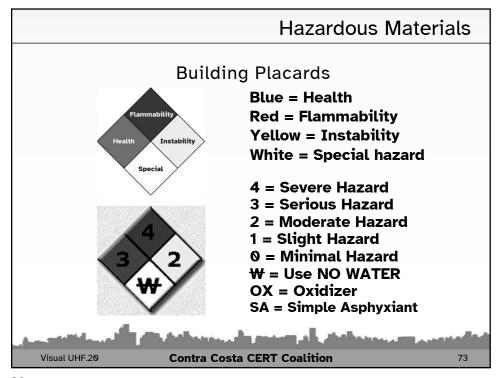
Are toxic to humans, animals or the environment through absorption, inhalation, injection or ingestion

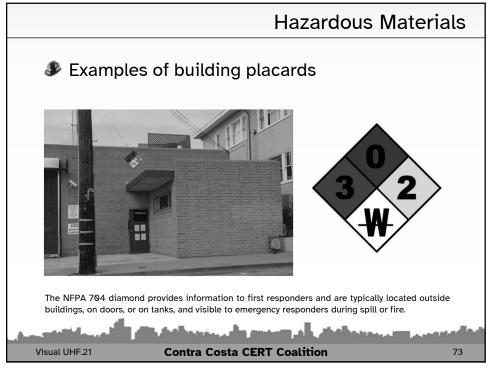
THE GOLDEN RULE OF HAZMAT: If you have not yet identified the substance, treat it like it's ETHYL METHYL NASTY STUFF. Stay away from it. Don't poke it, look at it the wrong way or insult it. Report your finding and let professionals handle the rest.

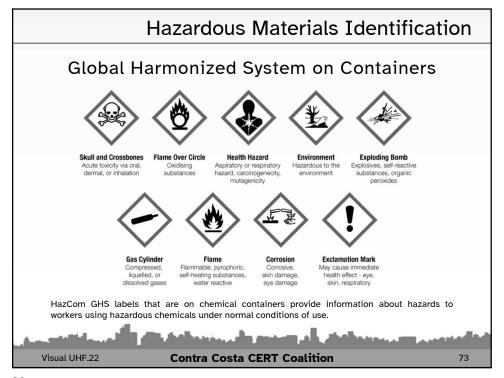
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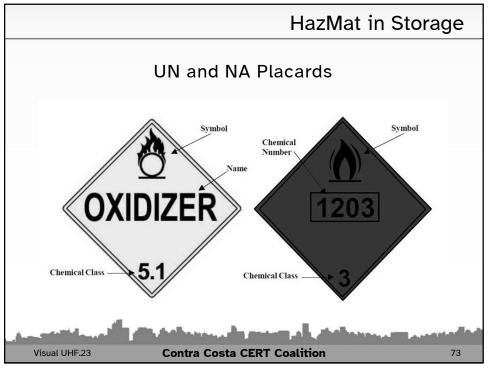
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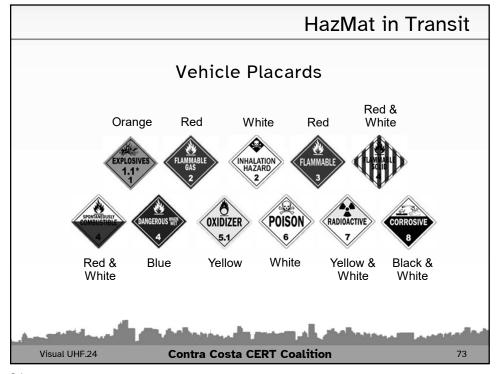
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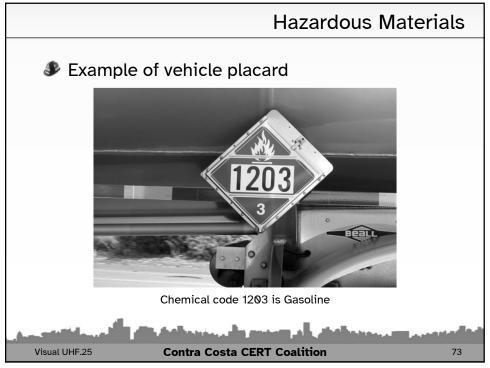


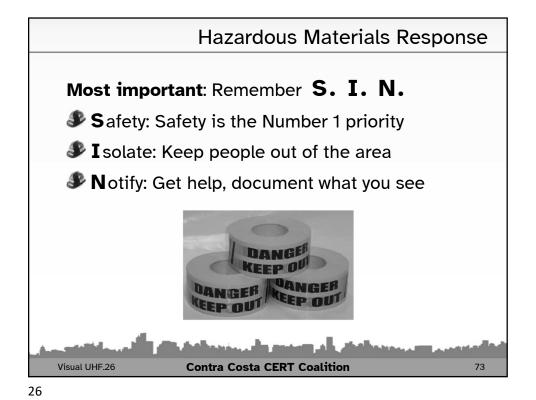




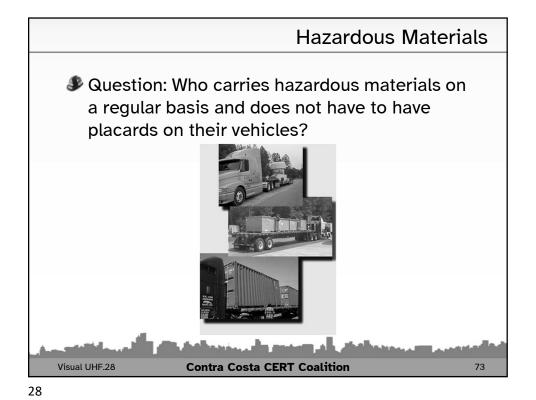








Remember:
All hazardous material placards are a stop sign for CERT volunteers!

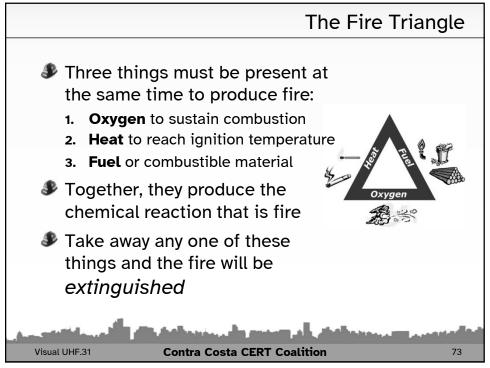


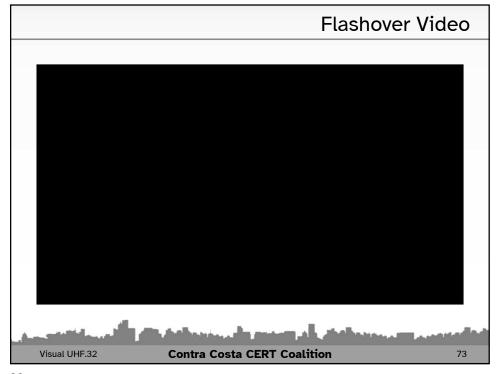
Hazardous Materials

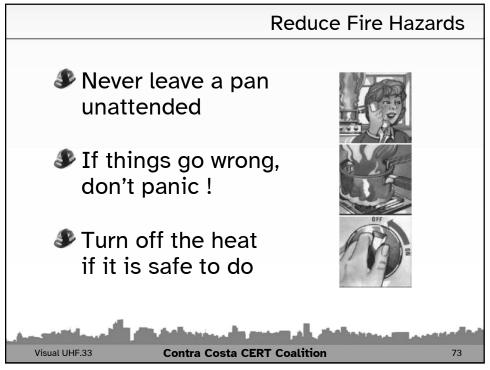
Answer:

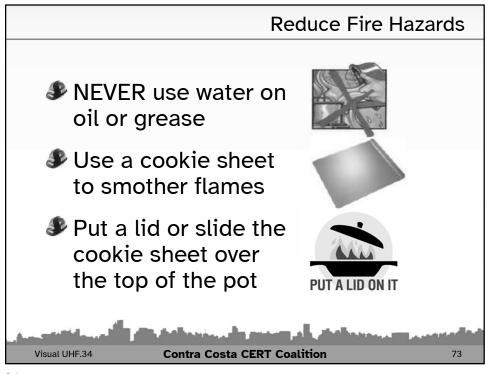
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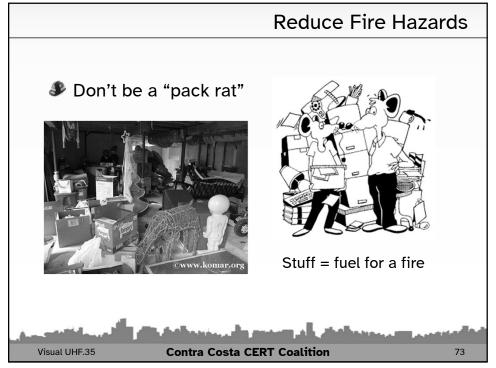


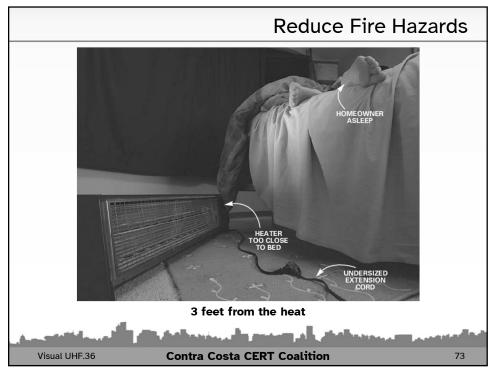


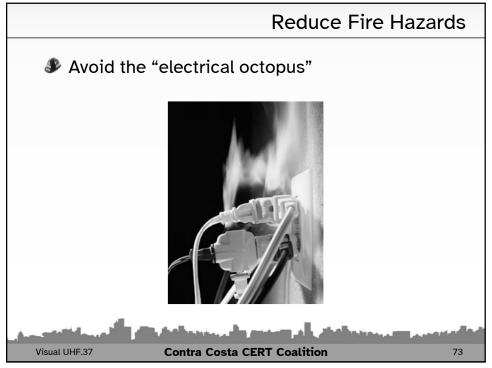


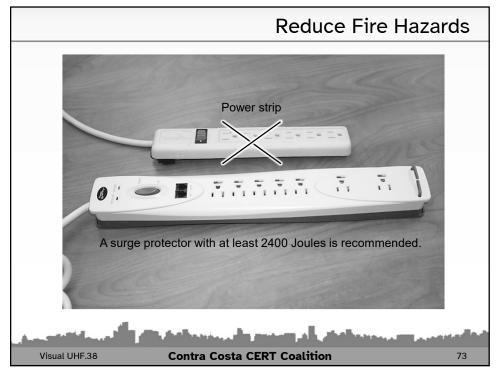


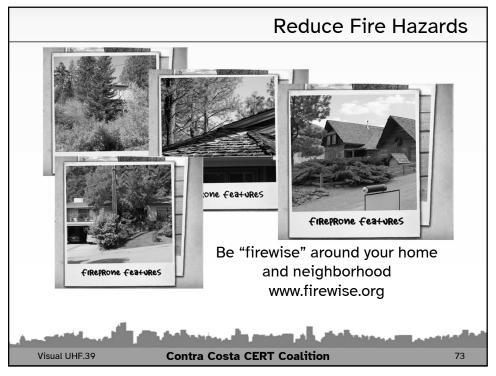












Natural Gas, Carbon Monoxide and Propane

- 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

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Smoke and CO Detectors

Most house fire victims die from smoke or toxic gases



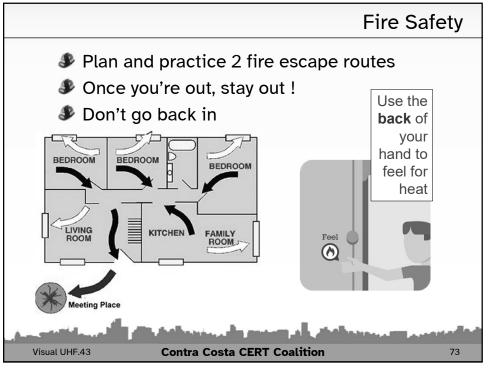
- CA State Law effective July 1, 2011
- > CO results from incomplete burning of organic matter including all petroleum products
 - Gasoline
 - Natural gas
 - Propane

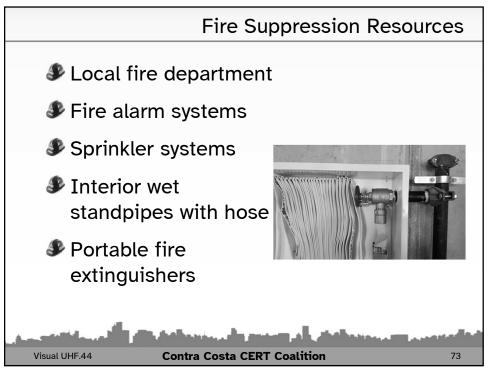
Test batteries for natural gas and carbon monoxide detectors every month

- > Change batteries every 6 months
- New models have 10 year batteries

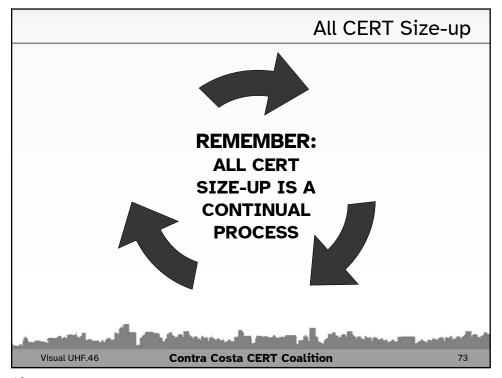
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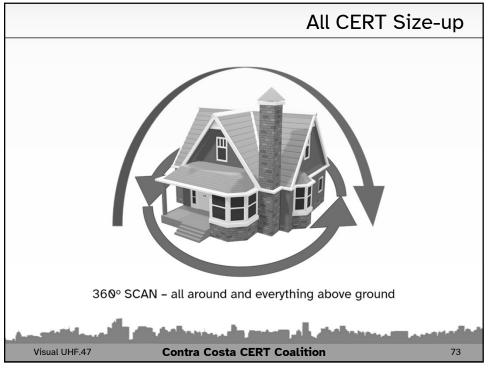






Size-up is the on-going evaluation of problems confronted within any emergency situation Size-up starts with the recognition of the emergency and continues until the emergency is under control. This process is carried out many times and by many different individuals at each emergency event The responsibility for size-up initially lies with the first responder that arrives on scene





CERT Fire Size-up

- Helps CERT volunteers decide:
 - > Whether to attempt to suppress a fire
 - > A plan of action
- Answer these questions:
 - > Do my buddy and I have the right equipment?
 - > Are there other hazards?
 - > Is the building structurally damaged?
 - > Can my buddy and I fight the fire safely?

Remember: The safety of individual CERT members is always the top priority

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CERT Fire Size-up Checklist

Step 1: Gather Facts

- Does the time of day or week impact fire suppression?
- Will weather conditions affect the fire situation?
- What type of structure is involved?
- Is the structure occupied?
- Are there special considerations?
- Are any other hazards likely to be involved?

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CERT Fire Size-up Checklist

Step 2: Assess and Communicate the Damage

- Do a 360° inspection, up, down and around
- Are normal communication channels functioning?

Step 3: Consider Probabilities

- Are there potential life-threatening hazards?
- Does the fire's path jeopardize other areas?
- Is there a high potential for more disaster activity that will impact personal safety?

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CERT Fire Size-up Checklist

Step 4: Assess Your Own Situation

- What resources are available?
- What equipment is available?

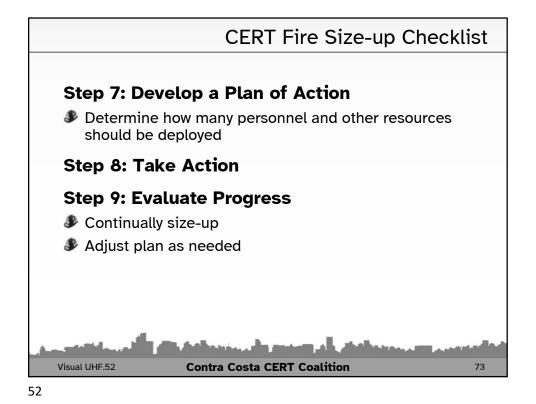
Step 5: Establish Priorities

- Can fire suppression be safely attempted by CERT?
- Are there other, more pressing needs at the moment?

Step 6: Make Decisions

Where will deployment of available resources do the greatest good while maintaining an adequate margin of safety?

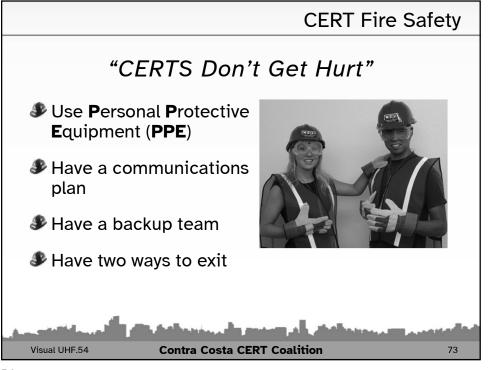
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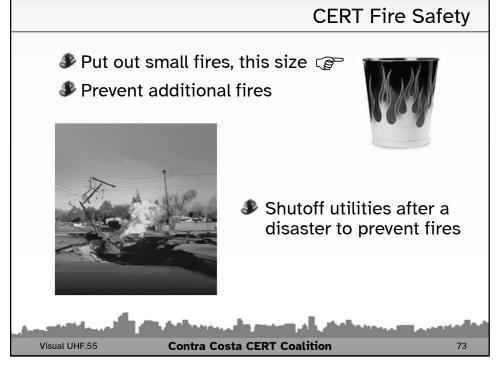


CERT Fire Size-up Checklist The Mental Management of Emergencies

- Responders panic because:
 - > They do not know or remember exactly how they are supposed to respond
 - > They are not aware of their own impaired decisionmaking when their adrenaline takes over
 - They have been working too many hours and they have forgotten what it is like to make calm decisions
 - > Stress drains serotonin and dopamine to levels that impair cognitive thinking

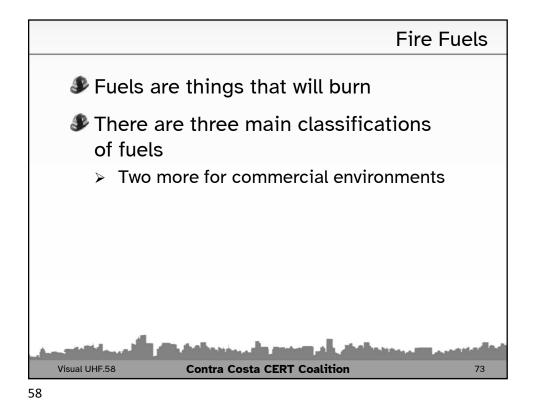
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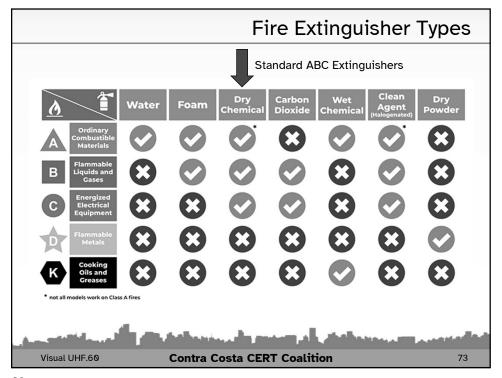




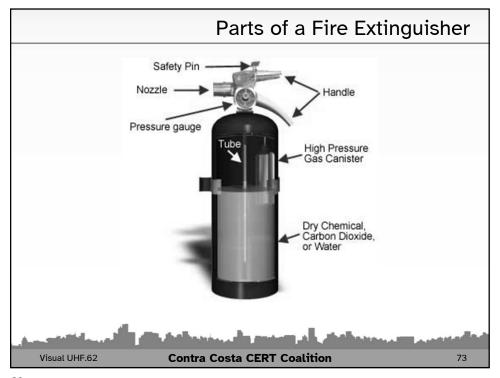


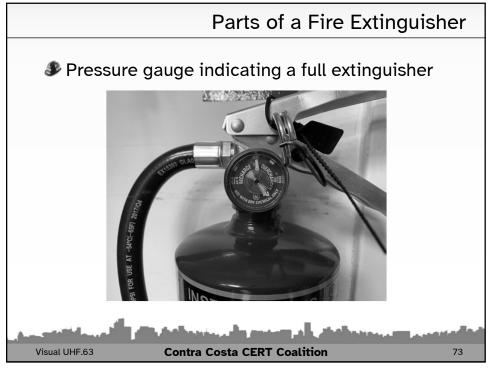


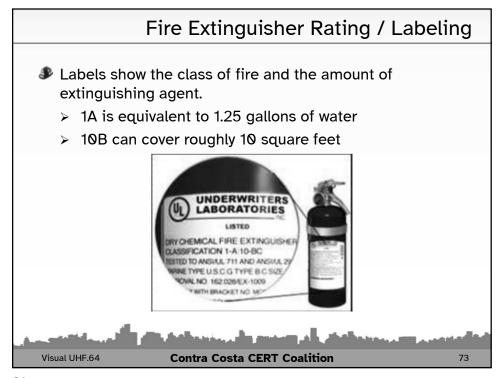
Classification of Fuels Ordinary Combustibles Wood, Paper, Cloth, Etc. Flammable Grease, Oil, Liquids Paint, Solvents Electrical Panel, Live Electrical Motor, Wiring, Equipment Étc. Combustible Magnesium, Metal Aluminum, Etc. Commercial Cooking Oils, Animal Fats, Cooking Equipment Vegetable Oils Visual UHF.59 **Contra Costa CERT Coalition**

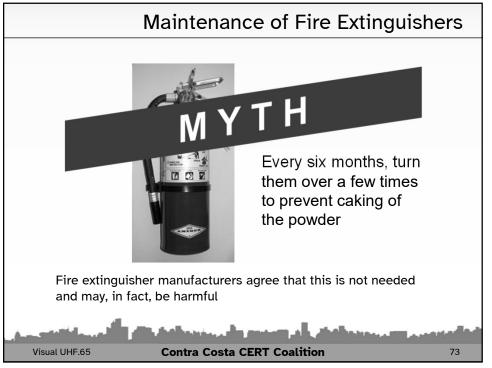


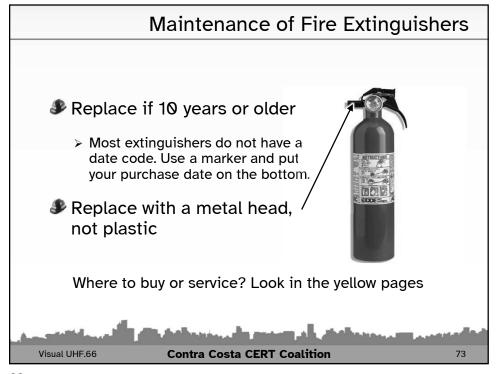
Choosing a Fire Extinguisher					
Typical ABC Fire Extinguisher specifications					
	Size	2.5	5	10	
	Height	14.87	15.25	18.94	
	Width	5.5	7.25	7.75	
	Depth	3	4.25	5.25	
	Weight Pounds	5.8	10.4	13.3	
	Nominal Discharge Time	9.5	14	22	
	Discharge Range, Feet	10-15	12-18	16-20	
	Rating	1-A:10- B:C	3-A:40- B:C	4-A:80- B:C	
Source - Badger Fire Protection					
And the second s					
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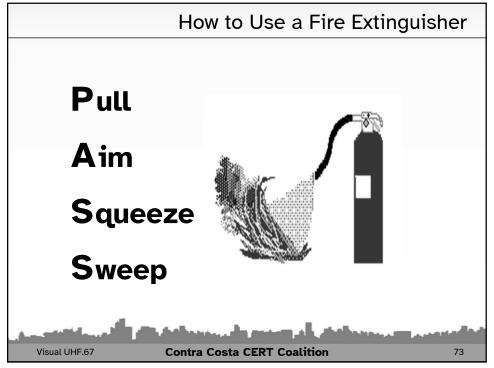


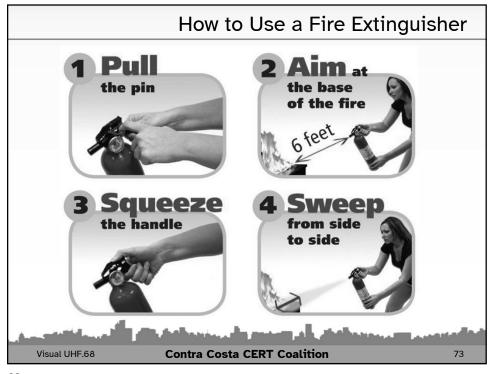


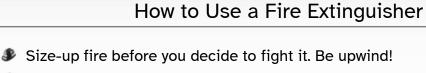












- Before approaching a fire, have pins pulled on both extinguishers (yours and your buddy's)
- Test the extinguishers before approaching any fire to be sure they work
- LEAD :: BUDDY COMMAND RESPONSE

Ready :: Ready
Going in :: Going in
Backing out :: Backing out

Communicate!



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