
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

In this unit you will learn about:

- **Fire Chemistry:** How fire occurs, classes of fire, and choosing the correct means to extinguish each type of fire.
- **Fire and Utility Hazards:** Potential fire and utility hazards in the home and workplace, and fire prevention strategies
- **CERT Sizeup:** How to conduct the continual data-gathering and evaluation process at the scene of a disaster or emergency
- **Fire Sizeup Considerations:** How to evaluate fires, assess firefighting resources, and determine a course of action
- **Portable Fire Extinguishers:** Types of portable fire extinguishers and how to operate them
- **Fire Suppression Safety:** How to decide if you should attempt to extinguish a fire; how to approach and extinguish a fire safely
- **Hazardous Materials:** How to identify potentially dangerous materials in storage, in transit, and in your home

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COMMUNITY EMERGENCY RESPONSE TEAM
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OBJECTIVES	<p>At the conclusion of this unit, the participants should be able to:</p> <ul style="list-style-type: none">▪ Explain the role of CERTs in fire safety.▪ Identify and reduce potential fire and utility risks in the home and workplace.▪ Know the nine steps of the CERT sizeup process.▪ Conduct a basic sizeup for a fire emergency.▪ Operate a portable fire extinguisher correctly.▪ Understand minimum safety precautions, including safety equipment, utility control, buddy system, and backup teams.▪ Identify the locations of hazardous materials in the community and home and reduce the risk from hazardous materials in the home.▪ Extinguish small fires using a fire extinguisher.
SCOPE	<p>The topics that will be discussed in this unit are:</p> <ul style="list-style-type: none">▪ Introduction and Unit Overview▪ Fire Chemistry▪ Fire and Utility Hazards▪ CERT Sizeup▪ Fire Sizeup Considerations▪ Firefighting Resources▪ Fire Suppression Safety▪ Hazardous Materials▪ Exercise: Suppressing Small Fires▪ Unit Summary
ESTIMATED COMPLETION TIME	2 hours 30 minutes

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TRAINING METHODS	<p>As an introduction to fire safety, the instructor will describe fire chemistry and the classes of fire, emphasizing the importance of selecting the correct methods or agent for fire safety.</p> <p>Then, the instructor will present an overview of hazards in the home and workplace, including electrical hazards, natural gas hazards, and flammable and combustible liquids, and lead a discussion of hazard mitigation and preparedness.</p> <p>The instructor will then describe CERT strategies for assessing disaster or emergency situations using the continual, 9-step sizeup process. Participants will learn fire sizeup considerations and how to use the fire sizeup checklist when conducting a sizeup for a situation involving fire.</p> <p>The next topic will be a discussion of firefighting resources, including portable fire extinguishers and creative resources such as pools, dirt or sand, and a garden hose. Emphasis will be placed on portable fire extinguishers because they will be the most common resource available to CERTs. Discussion of portable fire extinguishers will include types, extinguisher components, deciding to use a fire extinguisher, and correct extinguisher operation.</p> <p>Fire suppression safety will be the next topic. The instructor will introduce the use of fire safety equipment and will place special emphasis on firefighter safety rules, including the 5-second rule, using the buddy system and a backup team, and techniques for fighting fires (e.g., confine the fire, stay low to the ground, identify a second exit route, etc.).</p> <p>The instructor may choose to show a video at this point to reinforce the presentation on fire safety and fire extinguishers. (Video resources are included in the Equipment section below.)</p> <p>Next, the instructor will lead an interactive discussion of hazardous materials, including where they are found, placarding, storage, and defensive strategies for hazardous materials accidents.</p> <p>Finally, the unit will end with an exercise in which the participants will operate in teams of two and use a portable fire extinguisher to extinguish a gas fire.</p>
RESOURCES REQUIRED	<ul style="list-style-type: none">▪ <i>Community Emergency Response Team Instructor Guide</i>▪ <i>Community Emergency Response Team Participant Manual</i>▪ PowerPoint Slides 2-0 through 2-32

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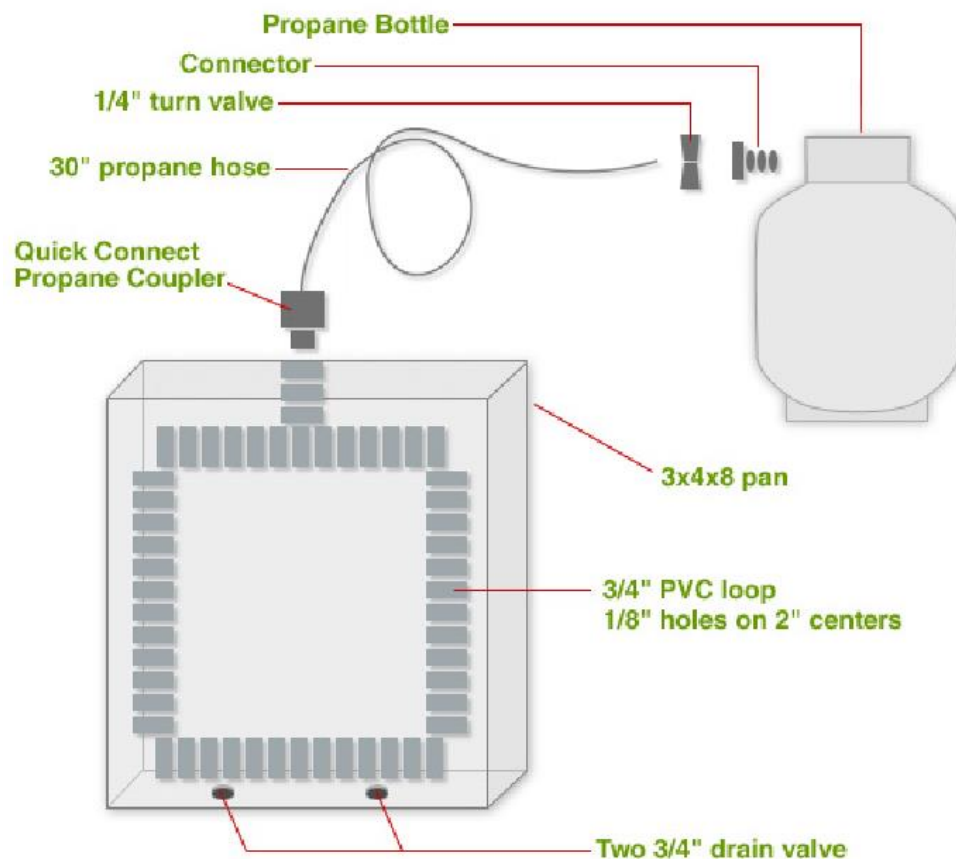
OTHER RESOURCES	If time permits, the 18-minute video <i>Fire Safety: The CERT Member's Role</i> is recommended for this unit. The video provides information on how to size up the fire and select the right extinguisher, as well as how to use extinguishers correctly. The video is available for download at the national CERT Web site, www.fema.gov/cert .																				
EQUIPMENT	<p>In addition to the equipment listed at the front of this Instructor Guide, you will need the following equipment for this unit:</p> <ul style="list-style-type: none">▪ A computer with PowerPoint software▪ A computer projector and screen▪ Samples of NFPA 704 Diamond and other hazardous materials placards, if possible▪ One roll of cotton swabbing▪ One Pyrex[®] jar with lid▪ One box of wooden kitchen matches▪ One water fire extinguisher▪ One dry chemical fire extinguisher▪ Portable Class A:B:C fire extinguishers (1 for every 5 participants)▪ Fire Pan (see page 2-5)▪ Road flares and a long pole																				
NOTES	<p>A suggested time plan for this unit is as follows:</p> <table><tr><td>Introduction and Unit Overview.....</td><td>10 minutes</td></tr><tr><td>Fire Chemistry</td><td>10 minutes</td></tr><tr><td>Fire and Utility Hazards</td><td>15 minutes</td></tr><tr><td>CERT Sizeup.....</td><td>5 minutes</td></tr><tr><td>Fire Sizeup Considerations.....</td><td>5 minutes</td></tr><tr><td>Firefighting Resources.....</td><td>20 minutes</td></tr><tr><td>Fire Suppression Safety</td><td>10 minutes</td></tr><tr><td>Hazardous Materials.....</td><td>10 minutes</td></tr><tr><td>Exercise: Suppressing Small Fires</td><td>60 minutes</td></tr><tr><td>Unit Summary.....</td><td>5 minutes</td></tr></table> <p>Total Time: 2 hours 30 minutes</p>	Introduction and Unit Overview.....	10 minutes	Fire Chemistry	10 minutes	Fire and Utility Hazards	15 minutes	CERT Sizeup.....	5 minutes	Fire Sizeup Considerations.....	5 minutes	Firefighting Resources.....	20 minutes	Fire Suppression Safety	10 minutes	Hazardous Materials.....	10 minutes	Exercise: Suppressing Small Fires	60 minutes	Unit Summary.....	5 minutes
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REMARKS	Most fire extinguisher service companies will provide Class A:B:C portable extinguishers for the final activity in this unit. Contact local companies for support.
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**REMARKS
(CONTINUED)**

One method for setting up this exercise is shown below. Consult your local fire department for any additional assistance required in building and operating the fire pan. Check with your State fire marshal about guidelines for open burning.



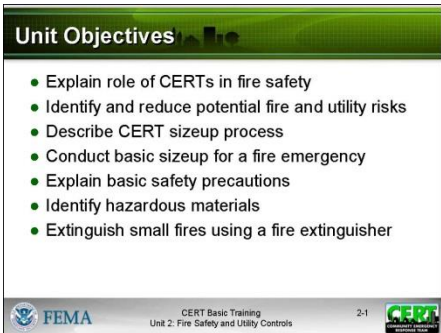
Unit 2: Fire Safety and Utility Controls

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 541 626 869"></div> <p data-bbox="188 911 444 947">Display Slide 2-0</p> <div data-bbox="188 1157 266 1228"></div> <p data-bbox="188 1266 444 1335">Correct response: Themselves.</p> <div data-bbox="188 1377 266 1449"></div> <p data-bbox="188 1486 461 1633">Correct responses: Families Homes Neighborhoods</p>	<p data-bbox="659 527 1211 562"><i>Introduction and Unit Overview</i></p> <p data-bbox="659 621 797 657">Welcome</p> <p data-bbox="659 695 1468 764">Introduce this unit by welcoming the participants to Unit 2 of the <i>CERT Basic Training</i>.</p> <p data-bbox="659 802 1435 871">Introduce any new instructors who will be assisting with this session.</p> <p data-bbox="659 1058 948 1094">Briefly review Unit 1.</p> <p data-bbox="659 1152 1321 1188">Whom do CERT members take care of first?</p> <p data-bbox="659 1375 1406 1411">After that, whom do CERT members take care of?</p>

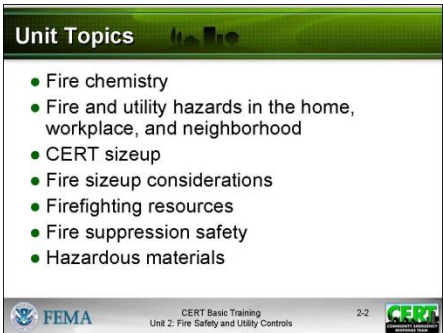
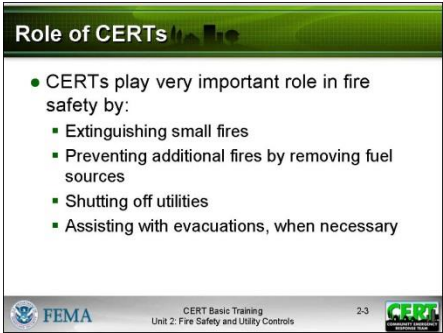
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
 <p>Correct responses:</p> <p>Damage to transportation, structures, communications, utilities, water service, fuel supply, financial services</p>  <p>Discuss responses.</p>  <p>Discuss.</p>  <p>This is a gentle reminder to participants that they should be doing these things.</p>	<p>How might a disaster impact a community's infrastructure?</p> <p>Did you look for potential structural and non-structural hazards?</p> <p>What did you find?</p> <p>How might you mitigate those hazards?</p> <p>Have you started to prepare a disaster supply kit?</p> <p>Have you started to work on a disaster plan?</p> <p>Introduce fire and utility safety by telling the participants that during and immediately following a severe emergency, the first priorities of professional fire services are life safety and extinguishing <i>major</i> fires.</p> <p>They may be hampered by impassable roads, weather conditions, inadequate water supply, and other inadequate resources.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 449 626 779"></div> <p data-bbox="188 816 440 852">Display Slide 2-1</p>	<p data-bbox="659 415 889 451">Unit Objectives</p> <p data-bbox="659 506 1377 573">Tell the participants that at the end of this unit, they should be able to:</p> <ul style="list-style-type: none"><li data-bbox="659 594 1354 627">▪ Explain the role that CERTs play in fire safety.<li data-bbox="659 642 1463 709">▪ Identify and reduce potential fire and utility risks in the home and workplace.<li data-bbox="659 726 1305 760">▪ Describe the 9-step CERT sizeup process.<li data-bbox="659 777 1325 810">▪ Conduct a basic sizeup for a fire emergency<li data-bbox="659 827 1365 1062">▪ Explain minimum safety precautions, including:<ul style="list-style-type: none"><li data-bbox="708 879 1000 913">• Safety equipment<li data-bbox="708 930 935 963">• Utility control<li data-bbox="708 980 951 1014">• Buddy system<li data-bbox="708 1031 951 1064">• Backup teams<li data-bbox="659 1104 1414 1205">▪ Identify locations of hazardous materials in the community and the home and reduce the risk from hazardous materials in the home<li data-bbox="659 1224 1349 1257">▪ Extinguish small fires using a fire extinguisher

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 449 628 779"><p>Unit Topics</p><ul style="list-style-type: none">• Fire chemistry• Fire and utility hazards in the home, workplace, and neighborhood• CERT sizeup• Fire sizeup considerations• Firefighting resources• Fire suppression safety• Hazardous materials<p>FEMA CERT Basic Training Unit 2: Fire Safety and Utility Controls 2-2</p></div> <p data-bbox="188 821 444 856">Display Slide 2-2</p> <div data-bbox="188 1297 628 1627"><p>Role of CERTs</p><ul style="list-style-type: none">• CERTs play very important role in fire safety by:<ul style="list-style-type: none">▪ Extinguishing small fires▪ Preventing additional fires by removing fuel sources▪ Shutting off utilities▪ Assisting with evacuations, when necessary<p>FEMA CERT Basic Training Unit 2: Fire Safety and Utility Controls 2-3</p></div> <p data-bbox="188 1669 444 1705">Display Slide 2-3</p>	<p data-bbox="659 432 831 468">Unit Topics</p> <p data-bbox="659 501 1446 638">Preview the unit topics by telling the group that the unit will provide them with the knowledge and skills that they will need to reduce or eliminate fire hazards and extinguish small fires.</p> <p data-bbox="659 674 1273 709">The areas that they will learn about include:</p> <ul data-bbox="659 726 1435 1098" style="list-style-type: none">▪ Fire chemistry▪ Fire and utility hazards in the home, workplace, and neighborhood▪ CERT sizeup▪ Fire sizeup considerations▪ Firefighting resources▪ Fire suppression safety▪ Hazardous materials <p data-bbox="659 1117 1455 1220">Tell the group that, at the end of the unit, they will have an opportunity to use a portable extinguisher to put out a fire.</p> <p data-bbox="659 1297 878 1333">Role of CERTs</p> <p data-bbox="659 1373 1443 1444">Emphasize that CERTs play a very important role in fire and utility safety by:</p> <ul data-bbox="659 1461 1430 1772" style="list-style-type: none">▪ <u>Extinguishing small fires</u> before they become major fires<ul style="list-style-type: none">• This unit will provide training on how to use an extinguisher to put out small fires and how to recognize when a fire is too big to handle. As a general rule, if you can't put out a fire in 5 seconds, it is already too big to handle and you should leave the premises immediately.

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CERT Priorities

- Help in emergencies before professional responders arrive
- Rescuer safety is number one priority
 - Always work with a buddy
 - Always wear safety equipment


CERT Goal:

Do the greatest good for the greatest number

**FEMA**

UNIT 2: Fire Safety and Utility Controls

2-4

**CERT**
Community Emergency Response Team

Display Slide 2-4

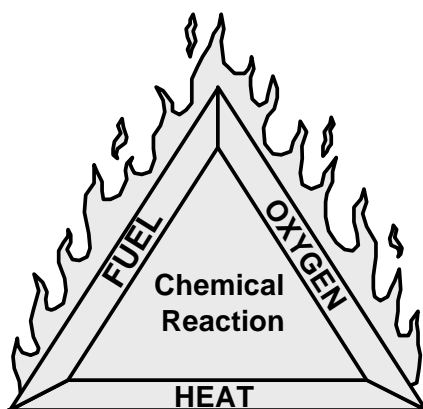
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="186 520 267 598" data-label="Image"></div> <div data-bbox="186 661 625 997" data-label="Image"></div> <p data-bbox="186 1039 446 1081">Display Slide 2-5</p> <p data-bbox="186 1333 349 1375">PM, P. 2-4</p>	<p data-bbox="657 420 917 472"><i>Fire Chemistry</i></p> <p data-bbox="657 514 1421 556">Does anyone know what it takes for a fire to burn?</p> <p data-bbox="657 630 917 672">The Fire Triangle</p> <p data-bbox="657 703 1388 777">If not mentioned by the participants, explain that fire requires three elements to exist:</p> <ul data-bbox="657 787 1461 1144" style="list-style-type: none">▪ Heat: Heat is required to elevate the temperature of a material to its ignition point.▪ Fuel: The fuel for a fire may be a solid, liquid, or gas. The type and quantity of the fuel will determine which method should be used to extinguish the fire.▪ Oxygen: Most fires will burn vigorously in any atmosphere of at least 20 % oxygen. Without oxygen, most fuels could be heated until entirely vaporized, yet would not burn. <p data-bbox="657 1155 1396 1270">Explain that working together, these three elements, called the <i>fire triangle</i>, create a chemical exothermic reaction, which is fire.</p> <p data-bbox="657 1302 1412 1375">Refer the participants to the <i>Fire Triangle</i> figure in the Participant Manual.</p> <p data-bbox="657 1407 1461 1480">Stress that if <u>any</u> of these elements is missing or if any is taken away, fire will not occur or will extinguish.</p>

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PM, P. 2-4

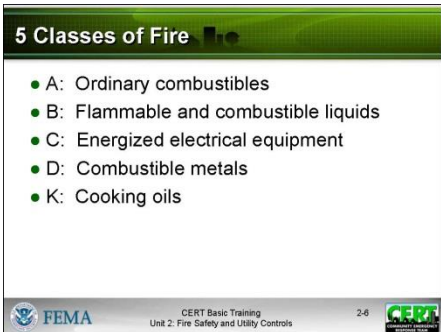

Fire Triangle





Fire Triangle: Fuel, oxygen, and heat create a chemical reaction, which causes fire.

INSTRUCTOR GUIDANCE	CONTENT
<p>Use the following steps to demonstrate the concept:</p> <ol style="list-style-type: none">1. Ignite a rolled-up piece of cotton, place it inside a Pyrex[®] jar, and cover it tightly.2. Wait until the flame goes out.3. Remove the material from the jar and blow on it to demonstrate that, unless the fire is completely out and overhauled, adding oxygen may complete the fire triangle and rekindle the fire.	<p>Demonstrating the Fire Triangle</p> <p>Tell the group that you will now demonstrate the concept of the fire triangle by removing the oxygen from burning cotton.</p> <p>Emphasize the need to ensure that every piece of burning material is completely extinguished. Tell the participants to think of Smokey the Bear and campfires to remember this point.</p>

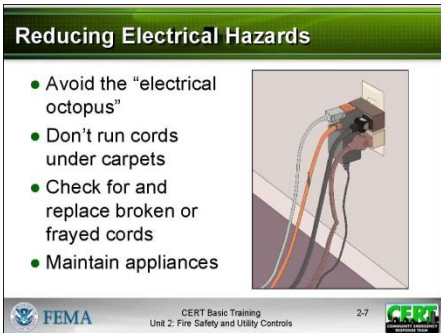
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 487 626 816"></div> <p data-bbox="188 856 444 890">Display Slide 2-6</p> <p data-bbox="188 968 613 1146">Reemphasize the need to overhaul Class A fires (i.e., ensure that every piece of burning material is <u>completely</u> extinguished).</p> <div data-bbox="188 1444 266 1516"></div>	<p data-bbox="659 417 883 451">Classes of Fire</p> <p data-bbox="659 491 1419 598">Tell the participants that, to aid in extinguishing fires, fires are categorized into classes based on the type of fuel that is burning:</p> <ul data-bbox="659 638 1455 1262" style="list-style-type: none"><li data-bbox="659 638 1455 709">▪ <u>Class A Fires</u>: Ordinary combustibles such as paper, cloth, wood, rubber, and many plastics<li data-bbox="659 741 1455 919">▪ <u>Class B Fires</u>: Flammable liquids (e.g., oils, gasoline) and combustible liquids (e.g., charcoal lighter fluid, kerosene). These fuels burn only at the surface because oxygen cannot penetrate the depth of the fluid. Only the vapor burns when ignited.<li data-bbox="659 951 1455 1058">▪ <u>Class C Fires</u>: Energized electrical equipment (e.g., wiring, motors). When the electricity is turned off, the fire becomes a Class A fire.<li data-bbox="659 1089 1455 1161">▪ <u>Class D Fires</u>: Combustible metals (e.g., aluminum, magnesium, titanium)<li data-bbox="659 1192 1455 1262">▪ <u>Class K Fires</u>: Cooking oils (e.g., vegetable oils, animal oils, fats) <p data-bbox="659 1297 1455 1404">Stress that it is <u>extremely</u> important to identify the type of fuel feeding the fire to select the correct method and agent for extinguishing the fire.</p> <p data-bbox="659 1444 1317 1516">Does anyone have any questions about fire chemistry?</p>

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INSTRUCTOR GUIDANCE	CONTENT
	<p data-bbox="657 422 1071 464"><i>Fire and Utility Hazards</i></p> <p data-bbox="657 518 1395 621">Explain that this section will deal with identifying and preventing fire and utility hazards in the home and workplace.</p> <div data-bbox="188 669 266 743"></div> <p data-bbox="657 659 1429 728">What are potential fire and utility hazards in homes or workplaces?</p> <p data-bbox="657 798 1446 867">Allow the group time to respond. Provide suggestions of additional potential fire and utility hazards.</p> <div data-bbox="188 911 266 984"></div> <p data-bbox="657 907 1343 976">What measures have you taken to mitigate or prevent the hazards?</p> <p data-bbox="657 1020 1409 1089">Use the participants' responses to make the following points:</p> <ul data-bbox="657 1108 1419 1388" style="list-style-type: none"><li data-bbox="657 1108 1419 1178">▪ Each of us has some type of fire or utility hazard in our home and workplace.<li data-bbox="657 1194 1419 1388">▪ Most of these hazards fall into three categories:<ul data-bbox="706 1249 1226 1388" style="list-style-type: none"><li data-bbox="706 1249 1003 1283">• Electrical hazards<li data-bbox="706 1299 1037 1333">• Natural gas hazards<li data-bbox="706 1350 1226 1388">• Flammable or combustible liquids <p data-bbox="657 1444 1453 1625">Point out that homes and workplaces can and do have other hazards, including incompatible materials stored in close proximity to each other, such as flammables/combustibles, corrosives, compressed gases, and explosives.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 770 626 1100"></div> <p data-bbox="188 1140 444 1176">Display Slide 2-7</p>	<p data-bbox="659 415 1406 485">Explain that simple fire prevention measures will help reduce the likelihood of fires:</p> <ul data-bbox="659 506 1406 632" style="list-style-type: none">▪ First, <i>locate</i> potential sources of ignition.▪ Then, do what you can to <i>reduce or eliminate</i> the hazards. <p data-bbox="659 737 932 772">Electrical Hazards</p> <p data-bbox="659 814 1422 919">Provide the group with examples of common electrical hazards and simple ways that they can be reduced or eliminated:</p> <ul data-bbox="659 940 1422 1276" style="list-style-type: none">▪ Avoid the “electrical octopus.” Eliminate tangles of electrical cords. Don’t overload electrical outlets. Don’t plug power strips into other power strips.▪ Don’t run electrical cords under carpets.▪ Check for and replace broken or frayed cords immediately.▪ Maintain electrical appliances properly. Repair or replace malfunctioning appliances.

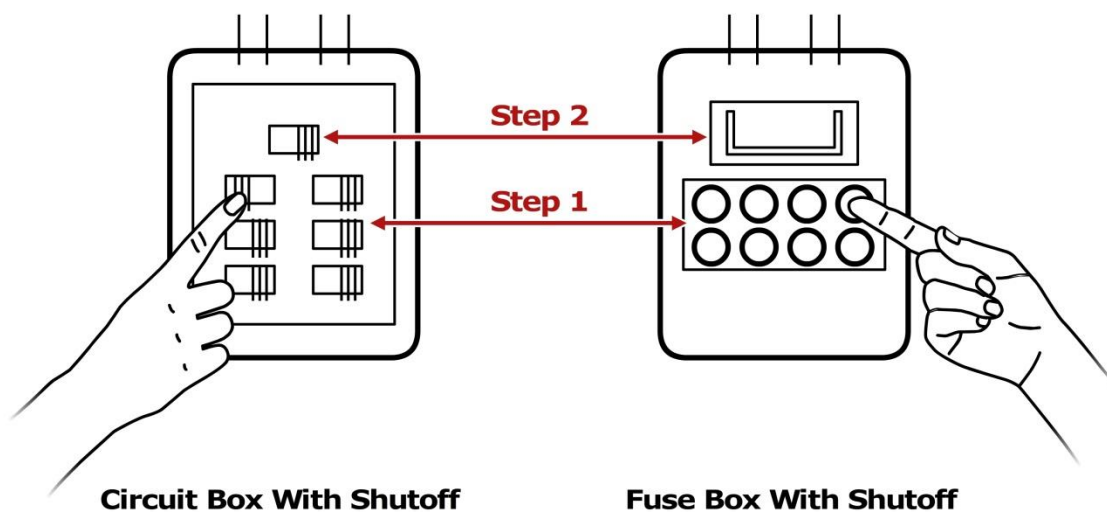
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 449 626 777" data-label="Image"> </div> <p>Display Slide 2-8</p> <p>Check with a representative from the local utility company regarding local utility protocols. Obtain or develop training models of fuse and breaker boxes to allow demonstrations and hands-on practice.</p> <p>Depending on your location, you may also choose to cover propane gas shutoffs.</p> <p>PM, P. 2-8</p> <div data-bbox="188 1440 626 1770" data-label="Image"> </div> <p>Display Slide 2-9</p>	<p>Responding to Electrical Emergencies</p> <p>Point out that electrical emergencies sometimes occur despite our best efforts. Every member of the household should be aware of the following procedures in the event of an electrical emergency:</p> <ul style="list-style-type: none"> ▪ Locate the circuit breakers or fuses, and know how to shut off the power. Post shutoff instructions next to the breaker box or fuse box. ▪ Unscrew individual fuses or switch off smaller breakers first, then pull the main switch or breaker. ▪ When turning the power back on, turn on the main switch or breaker first, then screw in the fuses or switch on the smaller breakers, one at a time. <p>Stress that the participants should <u>not</u> enter a flooded basement or standing water to shut off the electrical supply because water conducts electricity.</p> <p>Refer the participants to the figures <i>Circuit Box and Fuse Box</i> in the Participant Manual.</p>

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PM, P. 2-8

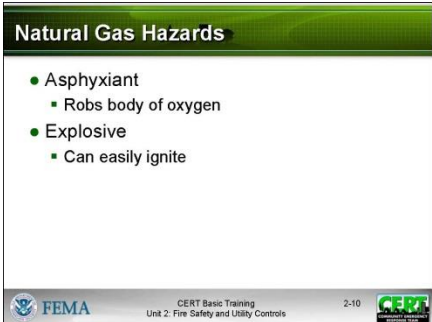
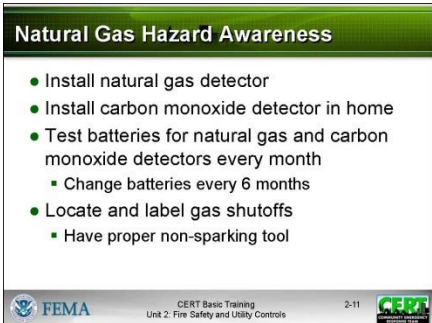
Circuit Box and Fuse Box



Circuit box showing shutoff steps.
Step 1: Shut off individual breakers.
Step 2: Shut off main breaker.

Fuse box showing shutoff steps.
Step 1: Pull out individual fuses.
Step 2: Pull out main fuse.

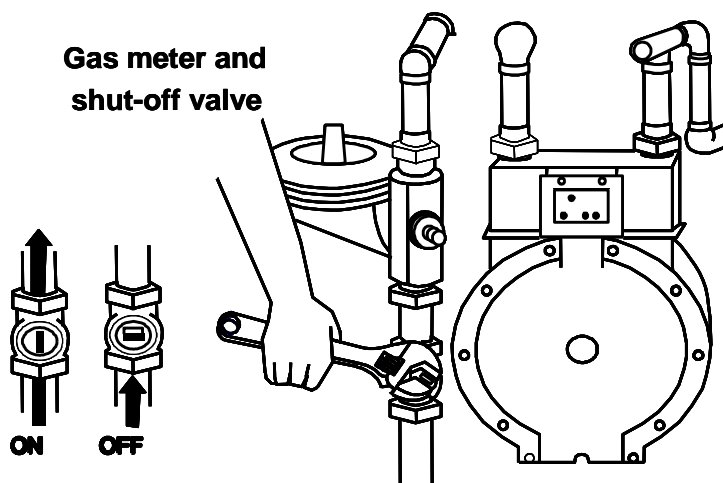
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 453 617 772"></div> <p data-bbox="188 814 461 846">Display Slide 2-10</p> <div data-bbox="188 921 617 1241"></div> <p data-bbox="188 1283 461 1314">Display Slide 2-11</p> <p data-bbox="188 1759 358 1791">PM, P. 2-10</p>	<p data-bbox="651 422 959 453">Natural Gas Hazards</p> <p data-bbox="651 495 1422 558">Explain that natural gas presents two types of hazards. It is an:</p> <ul data-bbox="651 579 1260 663" style="list-style-type: none">▪ <u>Asphyxiant</u> that robs the body of oxygen▪ <u>Explosive</u> that can easily ignite <p data-bbox="651 894 1122 926">Natural Gas Hazard Awareness</p> <p data-bbox="651 926 1349 989">Provide the participants with several examples for monitoring natural gas hazards:</p> <ul data-bbox="651 1010 1438 1703" style="list-style-type: none">▪ As with smoke alarms that need to be strategically placed in your home, e.g., on every level of the home and near all sleeping areas, install a natural gas detector near the furnace, hot water tank, and gas appliances such as clothes dryer or stove. Test the detector monthly to ensure that it works.▪ Install a carbon monoxide detector near the sleeping area. Additional detectors may be installed on every level of the home and in every bedroom. Detectors should not be placed within 15 feet of heating or cooking appliances or in or near very humid areas such as bathrooms. Test the detector monthly to ensure that it works.▪ Locate and label the gas shutoff valve(s). (There may be multiple valves inside a home in addition to the main shutoff.) Know how to shut off the gas and have the proper non-sparking tool for shutting off the gas. <p data-bbox="651 1759 1406 1833">Refer the participants to the figure <i>Natural Gas Meter with Shutoff</i> in the Participant Manual.</p>

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PM, P. 2-10

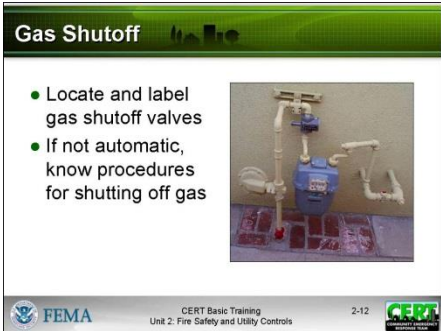
Natural Gas Meter with Shutoff




The gas meter shutoff diagram indicates the shutoff valve location on the pipe that comes out of the ground. To turn off the valve, use a non-sparking wrench to turn the valve clockwise one-quarter turn. Remember that, in all cases, natural gas flow should only be turned on by a licensed technician.

Please note: Some gas meters have automatic shutoff valves that restrict the flow of gas during an earthquake or other emergency. These are installed by a licensed plumber, downstream of the utility point of delivery. If you are unsure whether your home has this shutoff device, contact your gas service company. If this shutoff device is closed, only a qualified professional should restore it.


COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 453 626 781"></div> <p data-bbox="188 823 461 856">Display Slide 2-12</p> <p data-bbox="188 898 620 1150">Consult with a local utility representative to determine protocols and, if possible, create a model gas meter to demonstrate and allow practice with the procedure for shutting off the gas.</p>	<p data-bbox="659 420 841 453">Gas Shutoff</p> <p data-bbox="659 474 1042 508"><u>Gas meter inside the home</u></p> <p data-bbox="659 529 1432 814">Explain that if the gas meter is located inside the home, participants should only shut off the gas flow when instructed to by local authorities. Emphasize that if they smell gas or see the dials on the meter showing gas is flowing even though appliances are turned off, they should evacuate the premises and call 911. Tell them that they should not attempt to shut off the gas from inside the building if gas may be in the air.</p> <p data-bbox="659 835 1062 869"><u>Gas meter outside the home</u></p> <p data-bbox="659 890 1442 1100">Tell participants that they should turn off the meter from outside the building if they smell gas or see dials on the meter showing gas is flowing even though appliances are turned off. Stress that if there is a fire that they cannot extinguish, they should call 911 and turn off the gas only if it is safe to do so.</p> <p data-bbox="659 1121 1429 1302">Explain that if participants are unsure of the proper procedures, they should not attempt to turn the utilities on again by themselves, particularly in multiple-unit dwellings. They should always follow the local fire department's guidelines.</p> <p data-bbox="659 1339 1377 1411"><u>Stress that after the gas flow is turned off, it can be restored only by a trained technician.</u></p> <p data-bbox="659 1453 1432 1780">Note that some gas meters have automatic shutoff valves that restrict the flow of gas during an earthquake or other emergency. Explain that these should be installed by a licensed plumber, downstream of the utility point of delivery. Tell participants that if they are unsure whether their home has this shutoff device, they should contact their gas service company. Stress that if this shutoff device is closed, only a qualified professional should restore it.</p> <p data-bbox="659 1818 1432 1890">Warn the participants never to enter the basement of a structure that is on fire to turn off any utility.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 667 626 997"></div> <p>Display Slide 2-13</p> <p>L.I.E.S. stands for Limit, Isolate, Eliminate, Separate.</p> <p>Provide the group with information about safe disposal of hazardous materials in your area.</p>	<p>Explain that they should use a flashlight, not a candle, if an additional light source is needed to locate and shut off the gas valve.</p> <p>Flammable Liquid Hazards</p> <p>Provide several examples for reducing hazards from flammable liquids:</p> <ul style="list-style-type: none">▪ Read labels to identify flammable products.▪ Store them properly, using the L.I.E.S. method (Limit, Isolate, Eliminate, Separate). <p>Stress that participants should only extinguish a flammable liquid using a portable fire extinguisher rated for Class B fires.</p> <p>Tell the group that they should extinguish a flammable liquid using a portable fire extinguisher rated for that class of fire. Explain that ratings for portable extinguishers will be addressed later in this unit.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="186 409 630 741"></div> <p data-bbox="186 779 461 816">Display Slide 2-14</p> <p data-bbox="186 957 492 995">PM, PP. 2-13 to 2-15</p> <p data-bbox="186 1144 630 1360">Point out that, while sizeup is a fire department term, the process has been tailored for CERTs and will be used again in other areas of CERT responsibility.</p> <p data-bbox="186 1400 591 1545">Provide several examples to illustrate the differences between fire department sizeup and CERT sizeup.</p>	<p data-bbox="659 422 891 464"><i>CERT Sizeup</i></p> <p data-bbox="659 483 1430 699">Introduce this topic by explaining to the group that sizeup is a continual process that enables professional responders to make decisions and respond appropriately in the areas of greatest need. CERT sizeup consists of 9 steps and should be used in any emergency situation.</p> <p data-bbox="659 739 1430 919">Refer the participants to <i>CERT Fire Sizeup</i> in the Participant Manual. Point out that, although the checklist is not exhaustive, it does include many of the questions that CERT members should ask when sizing up a fire situation.</p> <p data-bbox="659 959 1430 1031">Explain that you will now discuss fire sizeup considerations and review the checklist with the group.</p> <p data-bbox="659 1104 953 1142">CERT Sizeup Steps</p> <p data-bbox="659 1178 1286 1213">Explain that the 9 steps of CERT sizeup are:</p> <ol data-bbox="659 1230 1430 1797" style="list-style-type: none">1. <u>Gather facts</u>. What has happened? How many people appear to be involved? What is the current situation?2. <u>Assess and communicate the damage</u>. Try to determine what has happened, what is happening now, and how bad things can really get.3. <u>Consider probabilities</u>. What is likely to happen? What could happen through cascading events?4. <u>Assess your own situation</u>. Are you in immediate danger? Have you been trained to handle the situation? Do you have the equipment that you need?5. <u>Establish priorities</u>. Are lives at risk? Can you help? <u>Remember, life safety is the first priority!</u>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
	<ol style="list-style-type: none">6. <u>Make decisions</u>. Base your decisions on the answers to Steps 1 through 5 and in accordance with the priorities that you established.7. <u>Develop a plan of action</u>. Develop a plan that will help you accomplish your priorities. Simple plans may be verbal, but more complex plans should always be written.8. <u>Take action</u>. Execute your plan, documenting deviations and status changes so that you can report the situation accurately to first responders.9. <u>Evaluate progress</u>. At intervals, evaluate your progress in accomplishing the objectives in the plan of action to determine what is working and what changes you may have to make to stabilize the situation.

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

PM, PP. 2-13 to 2-15	CERT Fire Sizeup
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	Yes	No
Step 1: Gather Facts		
<i>Time</i>		
<ul style="list-style-type: none"> ▪ Does the time of day or week affect fire suppression efforts? How? 	<input type="checkbox"/>	<input type="checkbox"/>
<i>Weather</i>		
<ul style="list-style-type: none"> ▪ Are there weather conditions that affect your safety? If yes, how will your safety be affected? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> ▪ Will weather conditions affect the fire situation? If yes, how will the fire situation be affected? 	<input type="checkbox"/>	<input type="checkbox"/>
<i>Type of Construction</i>		
<ul style="list-style-type: none"> ▪ What type(s) of structure(s) are involved? 		
<ul style="list-style-type: none"> ▪ What type(s) of construction are involved 		
<i>Occupancy</i>		
<ul style="list-style-type: none"> ▪ Are the structures occupied? If yes, how many people are likely to be affected? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> ▪ Are there special considerations (e.g., children, elderly, pets, people with disabilities)? 	<input type="checkbox"/>	<input type="checkbox"/>


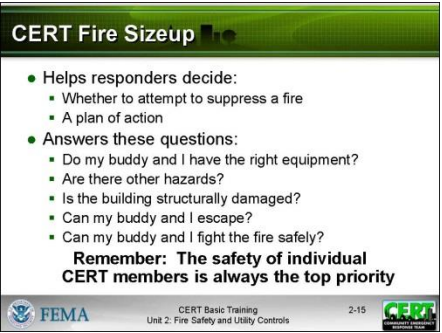
COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

	Yes	No
<i>Hazards</i>		
<ul style="list-style-type: none"> Are hazardous materials evident? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Are any other types of hazards present? <p>If yes, what other hazards?</p>	<input type="checkbox"/>	<input type="checkbox"/>
Step 2: Assess and Communicate the Damage		
<ul style="list-style-type: none"> Survey all sides of the building. Is the danger beyond the CERT's capability? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Have the facts and the initial damage assessment been communicated to the appropriate person(s)? 	<input type="checkbox"/>	<input type="checkbox"/>
Step 3: Consider Probabilities		
<i>Life Hazards</i>		
<ul style="list-style-type: none"> Are there potentially life-threatening hazards? <p>If yes, what are the hazards?</p>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Path of Fire</i>		
<ul style="list-style-type: none"> Does the fire's path jeopardize other areas? <p>If yes, what other areas may be jeopardized?</p>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Additional Damage</i>		
<ul style="list-style-type: none"> Is there a high potential for more disaster activity that will impact personal safety? <p>If yes, what are the known risks?</p>	<input type="checkbox"/>	<input type="checkbox"/>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

	Yes	No
Step 4: Assess Your Own Situation		
<ul style="list-style-type: none"> What equipment is available to help suppress the fire? What other resources are available? 		
<ul style="list-style-type: none"> Can fire suppression be <i>safely</i> attempted by CERT members? <p><u>If not, do <i>not</i> attempt suppression.</u></p>	<input type="checkbox"/>	<input type="checkbox"/>
Step 5: Establish Priorities		
<ul style="list-style-type: none"> Are there other, more pressing needs at the moment? <p>If yes, list.</p>	<input type="checkbox"/>	<input type="checkbox"/>
Step 6: Make Decisions		
<ul style="list-style-type: none"> Where will resources do the most good while maintaining an adequate margin of safety? 		
Step 7: Develop a Plan of Action		
<ul style="list-style-type: none"> Determine how personnel and other resources should be used. 		
Step 8: Take Action		
<ul style="list-style-type: none"> Put the plan into effect. 		
Step 9: Evaluate Progress		
<ul style="list-style-type: none"> Continually size up the situation to identify changes in the: <ul style="list-style-type: none"> Scope of the problem Safety risks Resource availability 		
<ul style="list-style-type: none"> Adjust strategies as required. 		

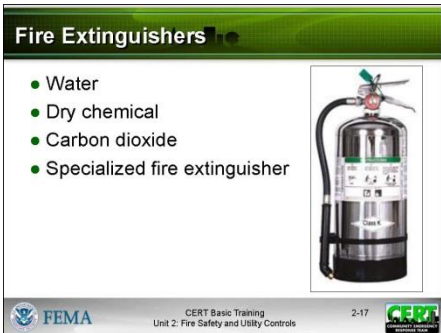
COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
  Display Slide 2-15	<p>Emphasize that sizeup is a continuous process.</p> <p>Evaluation of progress — Step 9 — may require you to go back and gather more facts.</p> <p>Does anyone have any questions about CERT fire sizeup?</p> <p><i>Fire Sizeup Considerations</i></p> <p>Explain that a sizeup of a situation involving a fire will dictate whether to attempt fire suppression and will help you plan for extinguishing the fire.</p> <p>Point out that CERT sizeup is a continual 9-step process that enables one to make decisions and respond appropriately in the areas of greatest need.</p> <p>Emphasize that the safety of individual CERT members is always the top priority. Say that effective fire sizeup will allow participants to answer all of the following questions:</p> <ul style="list-style-type: none">▪ Do my buddy and I have the right equipment?▪ Are there other hazards?▪ Is the building structurally damaged?▪ Can my buddy and I escape?▪ Can my buddy and I fight the fire safely? <p>Remind participants that the safety of individual CERT members is always the top priority.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS






INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 520 266 596"></div> <div data-bbox="188 674 626 1003"></div> <p data-bbox="188 1045 461 1079">Display Slide 2-16</p>	<p data-bbox="659 422 1065 464"><i>Firefighting Resources</i></p> <p data-bbox="659 520 1308 590">What comes to mind when you think about firefighting resources?</p> <p data-bbox="659 642 1414 711">If not mentioned, tell the group that the most common firefighting resources are:</p> <ul data-bbox="659 730 1073 814" style="list-style-type: none">▪ Portable fire extinguishers▪ Interior wet standpipes <p data-bbox="659 831 1373 900">Other resources include confinement and “creative resources.”</p> <p data-bbox="659 1119 938 1161">Fire Extinguishers</p> <p data-bbox="659 1188 1455 1329">Remind the participants that portable fire extinguishers are invaluable for putting out small fires. A well-prepared home or workplace will have at least two portable fire extinguishers of the appropriate type for the location.</p> <p data-bbox="659 1360 1357 1430">Emphasize that the type of fuel that is burning will determine which resources to select to fight a fire.</p> <p data-bbox="659 1465 1430 1535">Because portable fire extinguishers are most common, this section will focus on them.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 449 626 779"></div> <p data-bbox="188 816 461 854">Display Slide 2-17</p> <p data-bbox="188 892 358 930">PM, P. 2-18</p>	<p data-bbox="659 413 1078 451">Types of Fire Extinguishers</p> <p data-bbox="659 485 1440 522">Tell the group that there are four types of extinguishers:</p> <ul data-bbox="659 573 1118 768" style="list-style-type: none">▪ Water▪ Dry chemical▪ Carbon dioxide▪ Specialized fire extinguishers <p data-bbox="659 892 1446 1073">Explain that the next section will briefly describe the characteristics of each type of fire extinguisher. Refer the participants to the <i>Fire Types, Extinguishing Agents, and Methods</i> chart in the Participant Manual for an overview of this information.</p> <p data-bbox="659 1113 1393 1186">Review the types of fires and extinguishing methods with the group.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS


PM, P. 2-17	Fire Types, Extinguishing Agents, and Methods
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FIRE TYPE	EXTINGUISHING AGENT	EXTINGUISHING METHOD
Ordinary Solid Materials 	Water Foam Dry chemical	Removes heat Removes air and heat Breaks chain reaction
Flammable Liquids 	Foam CO ₂ Dry chemical	Removes air Breaks chain reaction
Electrical Equipment 	CO ₂ Dry chemical	Removes air Breaks chain reaction
Combustible Metals 	Special agents	Usually remove air
Kitchen Oils 	Chemical	Usually removes air

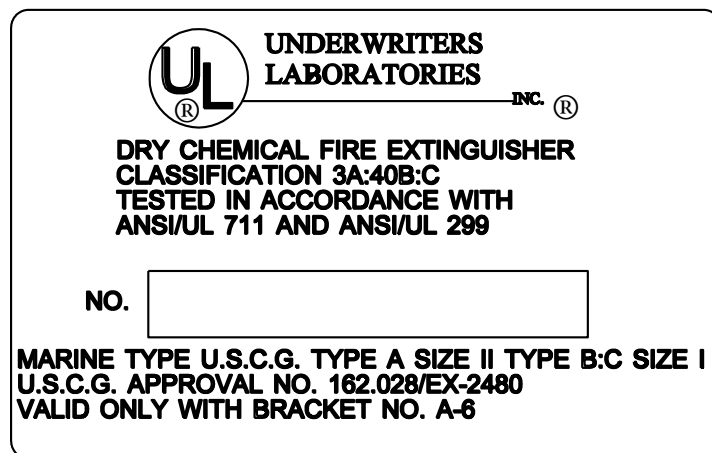
COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 451 628 781"><p>Extinguisher Rating/Labeling</p><ul style="list-style-type: none">• Labels show types of fires that extinguisher is used for:<ul style="list-style-type: none">▪ Class A fire ratings: 1A to 40A▪ Class B fire ratings: 1B to 640B• Higher number on label = greater amount of extinguishing agent<p><small>FEMA CERT Basic Training Unit 2: Fire Safety and Utility Controls 2-18</small></p></div> <p>Display Slide 2-18</p>	<p>Extinguisher Rating and Labeling</p> <p>Tell the group that portable fire extinguishers must be rated and approved by the State fire marshal and Underwriters Laboratories (an organization that sets safety standards for manufactured goods). They are rated according to their effectiveness on the different classes of fire. Their strength and capability must also be labeled by the manufacturer.</p> <p>Explain that the label contains vital information about the type(s) of fire for which the extinguisher is appropriate.</p> <p>Extinguishers that are appropriate for Class A fires have a rating from 1A to 40A, with a higher number indicating a higher volume of extinguishing agent.</p> <p>Extinguishers that are appropriate for Class B fires have a rating from 1B to 640B.</p> <p>No number accompanies an extinguisher rated Class C, D, or K.</p> <p>The C on the label indicates only that the extinguisher is safe to use on electrical fires.</p> <p>Extinguishers for Class D fires must match the type of metal that is burning and are labeled with a list detailing the metals that match the unit's extinguishing agent. These extinguishers also do not use numerical ratings.</p> <p>Extinguishers for Class K fires are designed to supplement fire suppression systems in commercial kitchens. They spray an alkaline mixture that, when combined with the fatty acid of the burning cooking oil or fat, creates soapy foam to hold in the vapors and extinguish the fire.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<p>Examples of Labels</p>  <p>Display Slide 2-19</p> <p>PM, P. 2-20</p>	<p>Describe some of the different types of fire extinguisher labels that participants might encounter.</p> <p>Refer the participants to the <i>Manufacturer's Label</i> illustration in the Participant Manual.</p>

PM, P. 2-20	Manufacturer's Label Illustration
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Sample manufacturer's label for a fire extinguisher, showing the Underwriters Laboratories symbol at the top, the type and classification of fire extinguisher, testing procedures used, and

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

serial number. At the bottom of the label is marine information, including the U.S. Coast Guard approval number.

INSTRUCTOR GUIDANCE	CONTENT
Display a water extinguisher.	<p>Review the types of fires and appropriate extinguishing methods with the group, noting the capacity, range, and pressure of each type of extinguisher.</p> <p>Water Extinguishers</p> <p>Tell the group that common characteristics of water extinguishers include:</p> <ul style="list-style-type: none">▪ <u>Capacity</u>. Standard size is 2.5 gallons.▪ <u>Range</u>. Standard range is 30-40 feet.▪ <u>Pressure</u>. Standard pressure is 110 pounds per square inch (psi). <p>Warn the group to use extreme caution when using a water extinguisher to ensure that the water, which is under pressure, does not scatter lightweight materials and spread the fire.</p>
Display a chemical extinguisher.	<p>Chemical Extinguishers</p> <p>Tell the participants that <u>dry chemical extinguishers</u> are most common.</p> <ul style="list-style-type: none">▪ Dry chemical extinguishers have a sodium bicarbonate base and are effective on Class B and C fires.▪ Multipurpose dry chemical extinguishers have a monoammonium phosphate base and are effective for Class A, B, and C fires.

UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

PM, P 2-23

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INSTRUCTOR GUIDANCE	CONTENT
	<p>Tell the participants that if they answer “YES” to <u>all</u> of these questions, they may attempt to extinguish the fire. Emphasize that, even if they answer “YES” to all of the questions but feel unable to extinguish the fire, they should leave immediately. Reemphasize the 5-second rule.</p> <p>Overhauling the Fire</p> <p>Explain that, if the fire is extinguished in 5 seconds and the area is safe, CERT members should stay and overhaul the fire. Overhauling is the process of searching a fire scene for hidden fire or sparks in an effort to prevent the fire from rekindling. Tell the participants how to overhaul a fire by remembering “cool, soak, and separate.”</p>

COMMUNITY EMERGENCY RESPONSE TEAM
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PM, P. 2-23

Deciding to Use a Fire Extinguisher

Can I escape quickly and safely from the area if I attempt to extinguish the fire and do not succeed?

NO



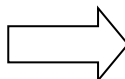
**LEAVE
IMMEDIATELY!**



YES

Do I have the right type of extinguisher?

NO



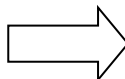
**LEAVE
IMMEDIATELY!**



YES

Is the extinguisher large enough for the fire?

NO



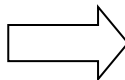
**LEAVE
IMMEDIATELY!**



YES

Is the area free from other dangers such as hazardous materials and falling debris?

NO



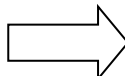
**LEAVE
IMMEDIATELY!**



START TO EXTINGUISH THE FIRE

Is the fire extinguished in 5 seconds?

NO





**LEAVE
IMMEDIATELY!**



YES

**STAY AND OVERHAUL THE FIRE IF
THE AREA IS SAFE**

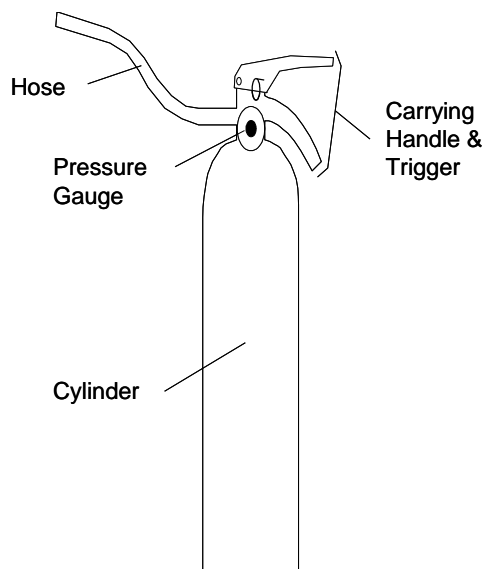
COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
  Demonstrate how to use a portable extinguisher. PM, P. 2-24	<p>Does anyone have any questions about how to use the decision-making flowchart?</p> <p>Operating a Fire Extinguisher</p> <p>How many of you have operated a portable fire extinguisher?</p> <p>After a show of hands, ask a few participants to share their results. Use their comments to elaborate on the topic.</p> <p>Explain that you will demonstrate how to use a portable fire extinguisher.</p> <p>Refer the participants to the diagram titled <i>Components of a Portable Fire Extinguisher</i> in the Participant Manual. Explain that a portable fire extinguisher includes four components:</p> <ul style="list-style-type: none">▪ A pressure gauge▪ A hose▪ A cylinder▪ A carrying handle with trigger <p>Tell the group that they should always operate portable fire extinguishers in an upright position.</p>

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

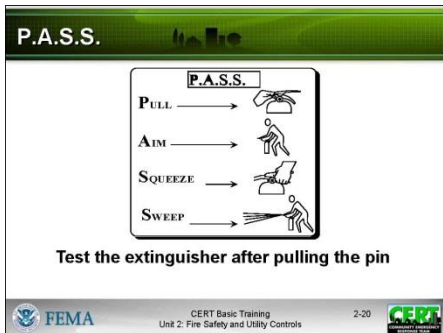

PM, P. 2-24

Components of a Portable Fire Extinguisher



**Components of a portable fire extinguisher: Hose, carrying handle and trigger,
pressure gauge, cylinder**

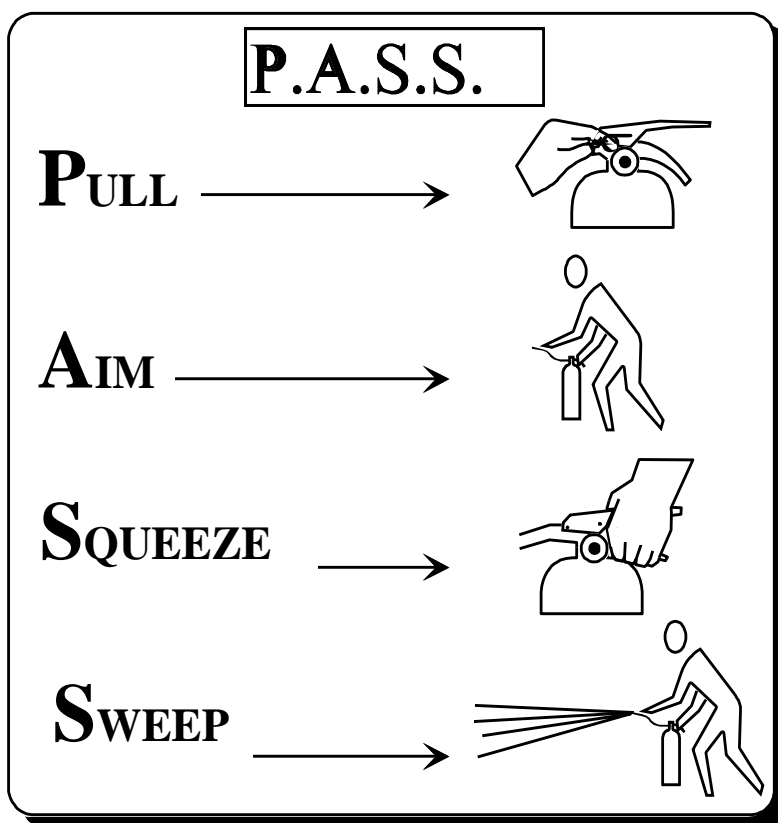
COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="186 449 626 779" data-label="Image"></div> <p data-bbox="186 814 461 852">Display Slide 2-20</p> <p data-bbox="186 888 501 921">Demonstrate P.A.S.S.</p> <p data-bbox="186 961 358 997">PM, P. 2-25</p> <div data-bbox="186 1409 266 1482" data-label="Image"></div>	<p data-bbox="656 382 781 415">P.A.S.S.</p> <p data-bbox="656 455 1276 527">Explain that the acronym for operating a fire extinguisher is P.A.S.S.:</p> <ul data-bbox="656 543 1364 737" style="list-style-type: none">▪ <u>P</u>ull (Test the extinguisher after pulling the pin)▪ <u>A</u>im▪ <u>S</u>queeze▪ <u>S</u>weep <p data-bbox="656 753 1380 825">To ensure that the extinguisher is working properly, test it before approaching any fire.</p> <p data-bbox="656 963 1356 1035">Refer the participants to the <i>PASS</i> diagram in the Participant Manual.</p> <p data-bbox="656 1075 1412 1184">Emphasize the need to <u>aim at the base</u> of the fire. Explain that each participant will have the opportunity to practice this technique near the end of the session.</p> <p data-bbox="656 1224 1412 1367">Explain that, once used, fire extinguishers that have been completely depleted should be laid down and stored on their side so no attempt will be made to use them until recharged.</p> <p data-bbox="656 1407 1393 1478">Does anyone have any questions about portable fire extinguishers or their operation?</p>

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PM, P. 2-25


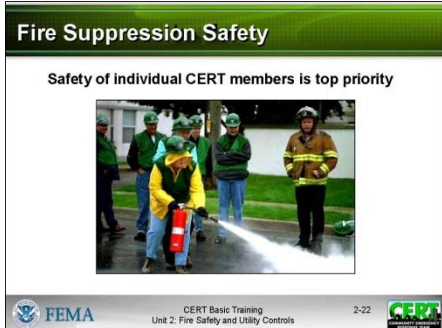
P.A.S.S



COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="191 447 626 774"><p>Interior Wet Standpipes</p><ul style="list-style-type: none">• Usually in commercial buildings or apartments• Work in two-person teams when using wet standpipes</div> <p>Display Slide 2-21</p>	<p>Interior Wet Standpipes</p> <p>Explain that interior wet standpipes are usually in commercial and apartment buildings and consist of 100 feet of 1.5-inch jacketed hose with an adjustable spray nozzle. They deliver up to 125 gallons of water per minute.</p> <p>Caution the group always to work in two-person teams when using an interior wet standpipe.</p> <p>Team Member 1: Removes the hose from the cabinet and makes sure that hose is free of kinks and bends in the line. When ready, gives the go-ahead to Team Member 2 to open the water valve.</p> <p>Team Member 2: After Team Member 1 gives the go-ahead, opens the water valve. Team Member 2 will then back up Team Member 1 at the nozzle.</p> <p>Explain that, due to the dryness of the hose fabric, water may seep through the hose fabric until the hose is saturated. This may last for approximately 1 minute.</p> <p>Confinement</p> <p>In interior spaces, it is possible to <i>confine</i> a fire and restrict the spread of smoke and heat by closing doors, interior and exterior.</p>


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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="186 451 267 525"></div> <p data-bbox="186 556 552 630">If not mentioned, suggest these:</p> <ul data-bbox="186 640 584 829" style="list-style-type: none">▪ Swimming pool or spa water and buckets▪ Sand or dirt and shovels▪ A garden hose <div data-bbox="186 913 625 1239"></div> <p data-bbox="186 1270 462 1312">Display Slide 2-22</p> <p data-bbox="186 1375 406 1417">PM, P. 2-27-28</p>	<p data-bbox="657 409 1055 451">Other Creative Resources</p> <p data-bbox="657 483 1380 556">What other resources might be handy to fight a fire?</p> <p data-bbox="657 882 1088 934"><i>Fire Suppression Safety</i></p> <p data-bbox="657 976 1437 1239">Introduce this topic by reminding the participants that, as CERT members, small fire suppression may be one of their roles. Emphasize, however, that — even following a disaster — their personal safety must always be their number one concern. Stress that they will be unable to help anyone if they are injured through careless sizeup or unsafe acts.</p> <p data-bbox="657 1344 1404 1417">Refer the group to the list of <i>Fire Suppression Safety Rules</i> in the Participant Manual.</p> <p data-bbox="657 1470 917 1512">Fire Safety Rules</p> <p data-bbox="657 1522 1412 1596">Stress the importance of following <u>all</u> fire suppression safety rules.</p> <ul data-bbox="657 1606 1396 1764" style="list-style-type: none">▪ <u>Use safety equipment</u> at all times. Wear your helmet, goggles, dust mask, leather gloves, and sturdy shoes or boots. If you are not equipped to protect your personal safety, <u>leave the building</u>.

COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
	<ul style="list-style-type: none">▪ <u>Work with a buddy.</u> Buddies serve an important purpose. They protect your safety. Don't ever try to fight a fire alone.▪ <u>Have a backup team, whenever possible.</u> A backup team just makes good sense. A backup team can support your fire suppression efforts and can provide help if you need it.▪ <u>Always have two ways to exit the fire area.</u> Fires spread much faster than you might think. Always have a backup escape plan in case your main escape route becomes blocked.▪ <u>Look at the door.</u> If air is being sucked under the door or smoke is coming out the top of the door, do <u>not</u> touch the door.▪ <u>Feel closed doors with the back of the hand,</u> working from the bottom of the door up. Do <u>not</u> touch the door handle before feeling the door. If the door is hot, there is fire behind it. Do not enter! Opening the door will feed additional oxygen to the fire.▪ <u>Confine the fire,</u> whenever possible, by closing doors and keeping them closed.▪ <u>Stay low to the ground.</u> Smoke will naturally rise. Keeping low to the ground will provide you with fresher air to breathe.▪ <u>Maintain a safe distance.</u> Remember the effective range of your fire extinguisher. Don't get closer than necessary to extinguish the fire.▪ <u>Never turn your back on a fire when backing out.</u>▪ <u>Overhaul the fire</u> to be sure that it is extinguished – and stays extinguished.

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 447 626 774"></div> <p data-bbox="188 810 461 846">Display Slide 2-23</p> <p data-bbox="188 898 621 968">Explain that a small fire, unlike a large fire:</p> <ul data-bbox="188 1024 594 1167" style="list-style-type: none">▪ Is about the size of a wastepaper can▪ Can be extinguished with one fire extinguisher <p data-bbox="188 1205 586 1381">Remind the group of the earlier demonstration (using burning cotton in the Pyrex[®] jar) to stress the need for overhauling.</p>	<p data-bbox="659 415 1393 485">Stress that what CERTs <u>don't</u> do when suppressing fires is as important as what they should do. <u>DON'T</u>:</p> <ul data-bbox="659 506 1425 989" style="list-style-type: none">▪ <u>Get too close</u>. Stay near the outer range of your extinguisher. If you feel the heat, you are too close.▪ <u>Try to fight a fire alone</u>. Remember that your first priority is your personal safety. Don't put it at risk.▪ <u>Try to suppress large fires</u>. Learn the capability of your equipment, and do not try to suppress a fire that is clearly too large for the equipment at hand (i.e., a fire that is larger than the combined ratings of available fire extinguishers).▪ <u>Enter smoke-filled areas</u>. Suppressing fires in smoke-filled areas requires equipment that CERTs don't have.

COMMUNITY EMERGENCY RESPONSE TEAM
UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

PM, P. 2-27	Fire Suppression Safety Rules
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- Use safety equipment at all times. Wear your helmet, goggles, dust mask, leather gloves, and sturdy shoes or boots. If you are not equipped to protect your personal safety, leave the building.
- Work with a buddy. Buddies serve an important purpose. They protect your safety. Don't ever try to fight a fire alone.
- Have a backup team, whenever possible. A backup team just makes good sense. A backup team can support your fire suppression efforts and can provide help if you need it.
- Always have two ways to exit the fire area. Fires spread much faster than you might think. Always have a backup escape plan in case your main escape route becomes blocked.
- Look at the door. If air is being sucked under the door or smoke is coming out of the top of the door, do not touch the door.
- Feel closed doors with the back of the hand, working from the bottom of the door up. Do not touch the door handle before feeling the door. If the door is hot, there is fire behind it. Do not enter! Opening the door will feed additional oxygen to the fire.
- Confine the fire, whenever possible, by keeping doors closed.
- Maintain a safe distance. Remember the effective range of your fire extinguisher. Don't get closer than necessary to extinguish the fire.
- Overhaul the fire to be sure that it is extinguished — and stays extinguished.

What CERTs don't do when suppressing fires is as important as what they should do. **DON'T:**

- Get too close. Stay near the outer range of your extinguisher. If you feel the heat, you are too close.
- Try to fight a fire alone. Remember that your first priority is your personal safety. Don't put yourself at risk.
- Try to suppress large fires. Learn the capability of your equipment, and do not try to suppress a fire that is clearly too large for the equipment at hand (i.e., a fire that is larger than the combined ratings of available fire extinguishers).
- Enter smoke-filled areas. Fire suppression in smoke-filled areas requires equipment that CERTs don't have.

UNIT 2: FIRE SAFETY AND UTILITY CONTROLS

INSTRUCTOR GUIDANCE	CONTENT
<p>Ask for a volunteer to assist you in demonstrating this technique.</p> <p>After reviewing the fire suppression procedure, show the video <i>Fire Safety: The CERT Member's Role</i>.</p>	<p>Proper Fire Suppression Procedures</p> <p>Describe and demonstrate the process for proper fire suppression.</p> <p>Explain briefly the responsibilities of each buddy. A buddy system is used in all cases. The job of Team Member 1 is to put out a fire with an extinguisher. The job of Team Member 2 is to watch for hazards and ensure the safety of both team members.</p> <ol style="list-style-type: none"> 1. Assume ready position. With the pin pulled, Team Member 1 holds the extinguisher aimed and upright, approximately 20 to 25 feet from the fire for small fires. 2. When ready to approach the fire, Team Member 1 should say, "Ready." Team Member 2 should repeat, "Ready." 3. As Team Member 1 begins to move forward, he or she should say, "Going in." Team Member 2 should repeat the command and stay within reach of Team Member 1. 4. Both team members should walk toward the fire. Team Member 1 should watch the fire and Team Member 2 should stay close to Team Member 1, keeping his or her hand on Team Member 1's shoulder. Team Member 2's job is to protect Team Member 1. 5. When Team Member 1 is exiting the fire area, he or she should say, "Backing out." Team Member 2 should repeat the command. 6. Team Member 2 should guide Team Member 1 from the area with his or her hands as Team Member 1 continues facing the fire and looking for other hazards. Team Member 1 must never turn his or her back on the fire scene.


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INSTRUCTOR GUIDANCE	CONTENT
	<p>Does anyone have any questions about fire suppression safety?</p> <p>Tell the group that next they are going to learn about identifying hazardous materials.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="186 489 266 562"></div> <p data-bbox="186 598 514 667">Allow the group time to respond.</p> <div data-bbox="186 735 626 1064"><p>Hazardous Materials</p><ul style="list-style-type: none">• Corrode other materials• Explode or are easily ignited• React strongly with water• Are unstable when exposed to heat or shock• Are otherwise toxic to humans, animals, or the environment through absorption, inhalation, injection, or ingestion<p>FEMA CERT Basic Training Unit 2: Fire Safety and Utility Controls 2-24</p></div> <p data-bbox="186 1100 461 1136">Display Slide 2-24</p>	<p data-bbox="657 390 1023 426"><i>Hazardous Materials</i></p> <p data-bbox="657 489 1338 525">How do you know if a material is hazardous?</p> <p data-bbox="657 705 1435 772">Explain that materials are considered hazardous if they have <u>any</u> of the characteristics listed on the slide:</p> <ul data-bbox="657 791 1360 1098" style="list-style-type: none">▪ Corrode other materials▪ Explode or are easily ignited▪ React strongly with water▪ Are unstable when exposed to heat or shock▪ Are otherwise toxic to humans, animals, or the environment through absorption, inhalation, injection, or ingestion <p data-bbox="657 1178 1403 1245">Explain that hazardous materials include, but are not limited to:</p> <ul data-bbox="657 1262 1131 1598" style="list-style-type: none">▪ Explosives▪ Flammable gases and liquids▪ Poisons and poisonous gases▪ Corrosives▪ Nonflammable gases▪ Oxidizers▪ Radioactive materials


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INSTRUCTOR GUIDANCE	CONTENT
 <p>Acknowledge the participants' responses.</p>	<p>Why is it important to know if hazardous materials are present?</p> <p>If not mentioned by the group, explain that knowledge that hazardous materials are present helps to protect CERT members' safety and is valuable sizeup information for all first responders.</p> <p>Identifying Hazardous Materials Locations</p> <p>Explain that there are several ways to identify locations where hazardous materials are stored, used, or in transit:</p> <ul style="list-style-type: none">▪ Location and type of occupancy▪ Placards▪ Sights, sounds, and smells <p><u>Location and Type of Occupancy</u></p> <p>Explain that hazardous materials are commonplace throughout every community. They are used in many commercial processes and sold in many retail outlets. While these hazards are managed under normal circumstances, accidents and disasters can cause these materials to be released into the environment.</p> <p>Provide some common locations in the community:</p> <ul style="list-style-type: none">▪ Industrial locations (e.g., warehouse, rail yard, shipyard)▪ Dry cleaner▪ Funeral home▪ Home supply store▪ Big box store▪ Delivery van (UPS, FedEx)

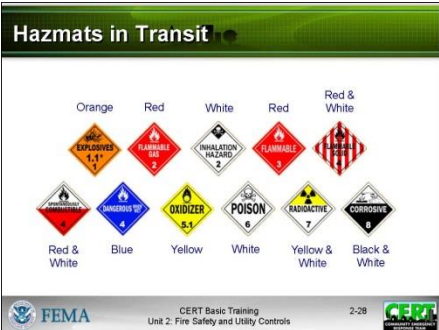

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 453 267 529" data-label="Image"> </div> <div data-bbox="186 598 625 926" data-label="Image"> </div> <p data-bbox="186 961 462 1003">Display Slide 2-25</p>	<p data-bbox="654 384 784 420"><u>Placards</u></p> <p data-bbox="654 457 1401 562">Has anyone ever seen the symbol in the slide or one similar to it? Does anyone know what it is or what it means?</p> <p data-bbox="654 604 1424 856">If not mentioned by the group, explain that the placard is an <u>NFPA 704 Diamond</u> — the identification system instituted by the National Fire Protection Association. The NFPA 704 Diamond is a concise system for identifying the hazards associated with specific materials. This placard would be found on a fixed facility.</p> <p data-bbox="654 898 1440 1077">Tell the participants that the diamond is divided into four colored quadrants, each with a rating number inside of it, and that the number indicates the degree of risk associated with the material. Numbers range from 1 to 4. The higher the number the higher the risk!</p> <p data-bbox="654 1119 836 1155">Explain that:</p> <ul data-bbox="654 1171 1310 1350" style="list-style-type: none"> ▪ The <u>red</u> quadrant describes the material's <u>flammability</u>. ▪ The <u>blue</u> quadrant indicates <u>health hazard</u>. ▪ The <u>yellow</u> quadrant indicates <u>reactivity</u>.

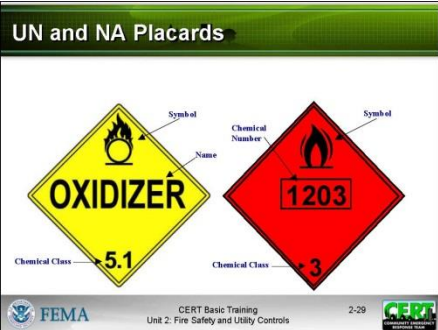
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 415 626 743" data-label="Image"> </div> <p data-bbox="188 779 461 814">Display Slide 2-26</p> <div data-bbox="188 1377 626 1705" data-label="Image"> </div> <p data-bbox="188 1743 461 1778">Display Slide 2-27</p>	<p data-bbox="659 384 1386 491">Point out that the <u>white</u> quadrant indicates <u>special precautions</u>. There are two symbols specified in the National Fire Codes, section 704.</p> <ul data-bbox="659 512 1438 819" style="list-style-type: none"> ▪ W indicates a material that displays unusual reactivity with water (i.e., should never be mixed with water or have water sprayed on it). <u>Magnesium metal</u> is an example of a material that is reactive to water. ▪ OX indicates a material that possesses oxidizing properties. <u>Ammonium nitrate</u> is an example of a material with oxidizing properties. <p data-bbox="659 835 1398 905">Explain that materials that are oxidizers increase the potential for explosion or fire.</p> <p data-bbox="659 961 1430 1068">Tell participants that in addition to the above symbols that are specified under the National Fire Codes, some NFPA 704 Diamonds will include additional symbols:</p> <ul data-bbox="659 1089 1325 1291" style="list-style-type: none"> ▪ <u>ACID</u> indicates that the material is an acid. ▪ <u>ALK</u> indicates that the material is a base. ▪ <u>COR</u> indicates that the material is corrosive. ▪  indicates that the material is radioactive. <p data-bbox="659 1348 1430 1495">Stress that the numbers within the NFPA 704 Diamond are used to assist professional firefighters in responding to accidents or fires. <u>CERT members should consider these placards a “stop sign.”</u></p> <p data-bbox="659 1533 1430 1677">The only action CERT members should take is to evacuate persons who are downwind, as necessary, to an uphill or upwind location. Do not enter the building in an attempt to evacuate persons inside.</p>



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INSTRUCTOR GUIDANCE	CONTENT
<p>Mention or use slides to illustrate local transportation hazards and any facilities that use the NFPA 704 Diamond, to provide more relevance to the discussion.</p> <p>If possible, show the group an actual 704 placard to improve recognition.</p>  <p>Display Slide 2-28</p>  <p>The NA placarding system is being phased out but is still occasionally used, usually on hazardous materials being transported from Canada.</p>	<p>Identifying Hazardous Materials in Transit</p> <p>Does anyone recognize the placards in the slide?</p> <p>If not mentioned by the group, explain that they are Department of Transportation (DOT) placards.</p> <p>Explain that the DOT placard is one of three ways that hazardous materials are marked and identified while in transit. The other two ways are:</p> <ul style="list-style-type: none"> ▪ The United Nations (UN) system ▪ The North American (NA) warning placards

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INSTRUCTOR GUIDANCE	CONTENT
<p>If anyone asks, hazardous materials that require placarding in any quantity include poisonous gases that present an inhalation hazard (DOT Class 2.3), poisonous liquids that present an inhalation hazard (DOT Class 6.1), and radioactive materials (DOT Class 7).</p> <p>PM, P. 2-33</p>  <p>Display Slide 2-29</p> <p>If possible, show the participants actual DOT placards to improve recognition.</p>	<p>Point out that these placards can be on any vehicle, not only tankers. Also, emphasize that:</p> <ul style="list-style-type: none"> ▪ No placard is required for less than 1,000 pounds of many hazardous materials. ▪ Certain hazardous materials (e.g., anhydrous ammonia) are placarded as a nonflammable gas for domestic transport but as a flammable gas for international transport. (<u>Anhydrous ammonia is a flammable gas!</u>) ▪ Sometimes drivers forget to change the placard when they change their cargo. CERT members should use extreme caution when approaching any vehicle in an accident. <p>Refer the participants to the <i>DOT Placard Warning</i> illustrations in the Participant Manual.</p> <p>Tell the group that this slide shows examples of the UN and NA systems. The UN and NA systems are displayed mainly on tank cars, cargo tanks, rail cars, and portable tanks.</p> <p>Explain that, like the NFPA 704 Diamond, the DOT, UN, and NA placards should be a “stop sign” for CERT members. CERT members should always err on the side of safety. They should <i>not</i> assume that, because there is no placard, no hazardous materials are present. Treat any unknown situation as a hazardous materials incident.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 382 626 707"><p>Greater Than 1?</p><p>Remember! All hazardous material placards are a stop sign for CERTs</p><p>FEMA CERT Basic Training Unit 2: Fire Safety and Utility Controls 2-30</p></div> <p>Display Slide 2-30</p> <div data-bbox="188 1220 266 1291"></div>	<p>As a general rule of thumb, if you see a number in the NFPA 704 Diamond that is greater than one, stay away.</p> <p><u>Sights, Sounds, and Smells</u></p> <p>Explain that hazardous materials are all around us and may be present regardless of the location or whether there are placards or other posted warnings. While hazardous materials often smell, sound, or look unusual, participants may not be able recognize something toxic. Participants should stay away from any unidentifiable substance and alert building managers or authorities.</p> <p>Does anyone have any questions about hazardous materials or how they are identified in storage or transport?</p> <p><i>Exercise: Suppressing Small Fires</i></p> <p><u>Purpose:</u> This exercise will provide the participants with experience in two key areas of fire suppression:</p> <ul style="list-style-type: none">▪ Using a portable fire extinguisher to suppress a small fire▪ Applying teamwork to fire suppression <p><u>Ensure that all of the participants are dressed properly and wear safety equipment for this exercise.</u> Dress for this exercise may be casual. However, shorts and open-toed shoes should not be permitted.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<p>It is advisable to demonstrate critical steps (e.g., the “ready” position) before allowing the participants to complete this exercise.</p>	<p>Prepare a propane gas fire source outside in an area with at least 40 feet of open space upwind of the fire source. Provide Class A:B:C portable extinguishers.</p> <p>This exercise requires two instructors: Instructor 1 will lead the exercise. Instructor 2 will observe and serve as the exercise Safety Officer.</p> <p><u>Instructions:</u> Follow the steps below to conduct this exercise. Coach the participants through the exercise using the instructions shown in bold type.</p> <ol style="list-style-type: none">1. Assign the participants to two-person teams. Stress that participants must communicate with each other. The emphasis is on safety and teamwork.2. Taking one team at a time, provide each team member with a portable fire extinguisher.3. Instructor 2 will light the fire, using a road flare mounted on a long pole, when Instructor 1 indicates that the participants are ready to begin the exercise.4. Before allowing the participants to begin this exercise, Instructor 1 should ask them:<ul style="list-style-type: none">▪ What their exit routes are▪ From which direction the wind is blowing▪ Whether the fire is spreading and where it would be in the next 30 seconds

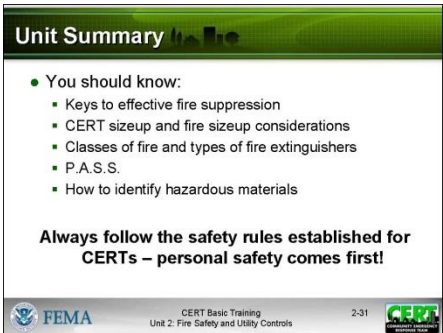
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
	<p>5. Ask Team Member 1 to assume the “ready” position, with pin pulled, extinguisher aimed and upright, approximately 20 to 25 feet from the fire.</p> <p>When ready to approach the fire, Team Member 1 should say, “Ready.” Team Member 2 should repeat, “Ready.”</p> <p>As Team Member 1 begins to move forward, he or she should say, “Going in.” Team Member 2 should repeat the command and place his or her hand on Team Member 1’s shoulder and stay within reach of Team Member 1.</p> <p>6. Ask Team Member 2 to act as backup, assuming the “ready” position at an arm’s distance from Team Member 1.</p> <div data-bbox="727 1003 1276 1482" data-label="Diagram"> <p>The diagram illustrates the setup for a fire safety drill. At the top center is a fire icon labeled 'Flammable Liquid Fire'. Below it, three individuals are positioned in a horizontal line: 'Participant No. 2 (Back-Up)' on the left, 'Participant No. 1' in the center, and 'Instructor No. 1' on the right. Above 'Participant No. 2' is 'Instructor No. 2 (Safety Officer)'. Below the line of three individuals is a group of six people labeled 'Observers'. To the right of the individuals is an upward-pointing arrow labeled 'Wind', indicating the wind direction is from the left.</p> </div>

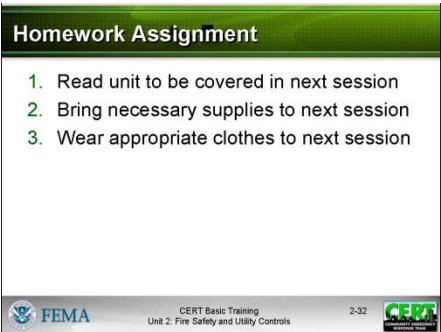
COMMUNITY EMERGENCY RESPONSE TEAM
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INSTRUCTOR GUIDANCE	CONTENT
	<p>7. Position Instructor 1 between the participants and the fire at all times.</p> <p>Both team members should walk toward the fire. Team Member 1 should watch the fire and Team Member 2 should stay close to Team Member 1, keeping his or her hand on Team Member 1's shoulder. Team Member 2's job is to protect Team Member 1.</p> <p>8. Ask Team Member 1 to approach the fire from the windward side (i.e., with the wind to the participant's back). When approximately 10 feet from the fire, Team Member 1 should begin to discharge the extinguisher at the base of the fire, continuing the approach until the range for the extinguisher is optimal.</p> <p>9. Team Member 1 should sweep the base of the fire until it is extinguished.</p> <p>When Team Member 1 is ready to exit the fire area, he or she should say, "Backing out." Team Member 2 should repeat the command. Team Member 2 should guide Team Member 1 from the area with his or her hands as Team Member 1 continues facing the fire and looking for other hazards.</p> <p>After the fire is extinguished, ask the participants to trade positions and repeat the exercise. If time permits, allow each participant to use the extinguisher twice, to provide added practice.</p> <p>Repeat this exercise with the other teams until all participants have had the opportunity to extinguish the fire.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="188 447 628 777">A thumbnail of a presentation slide titled 'Unit Summary'. It lists key points for CERT members to know, including fire suppression keys, sizeup considerations, fire classes, P.A.S.S., and hazardous materials identification. It also includes a safety reminder: 'Always follow the safety rules established for CERTs – personal safety comes first!'. Logos for FEMA and CERT are at the bottom.</div> <p data-bbox="188 814 457 850">Display Slide 2-31</p>	<p data-bbox="659 394 914 430"><i>Unit Summary</i></p> <p data-bbox="659 485 1187 520">Summarize the key points of this unit:</p> <p data-bbox="659 556 1234 625">Effective fire suppression depends on an understanding of:</p> <ul data-bbox="659 640 1421 913" style="list-style-type: none">▪ The elements required for fire to exist▪ The type of fuel involved▪ The class of fire▪ The resources required and available to extinguish each type of fire▪ Effective fire suppression techniques <p data-bbox="659 961 1276 997">Fire requires heat, fuel, and oxygen to exist.</p> <p data-bbox="659 1033 1208 1068">There are five types, or classes, of fire:</p> <ul data-bbox="659 1083 1273 1318" style="list-style-type: none">▪ Class A: Ordinary combustibles▪ Class B: Flammable liquids▪ Class C: Energized electrical equipment▪ Class D: Combustible metals▪ Class K: Cooking oils <p data-bbox="659 1333 1401 1402">It is extremely important to identify the class of fire to use the proper extinguisher for the class.</p> <p data-bbox="659 1438 1433 1585">Portable fire extinguishers are most frequently used for suppressing small fires. Their labels tell the types of fires for which they are effective and the area that they can suppress.</p> <p data-bbox="659 1621 1425 1732">When using portable fire extinguishers, remember P.A.S.S.: Pull, Aim, Squeeze, and Sweep. Always test the extinguisher after pulling the pin.</p> <p data-bbox="659 1768 1433 1837">When suppressing a fire, <u>always</u> follow the safety rules established for CERTs.</p>

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INSTRUCTOR GUIDANCE	CONTENT
<div data-bbox="190 674 628 1003"></div> <p data-bbox="190 1039 461 1073">Display Slide 2-32</p>	<p data-bbox="659 384 1435 638">To help understand the types of materials, there are several methods of placarding hazardous materials being stored or transported, including NFPA, DOT, UN, and NA. When faced with accidents involving materials that are placarded as hazardous — or when the material is unknown — <u>keep away and call for professional help immediately.</u></p> <p data-bbox="659 678 1013 714">Homework Assignment</p> <p data-bbox="659 751 1411 821">Remind the participants that, before the next session, they should:</p> <ul data-bbox="659 842 1333 1262" style="list-style-type: none">▪ Read and familiarize themselves with Unit 3: Disaster Medical Operations — Part I in the Participant Manual.▪ Obtain and bring to the session:<ul style="list-style-type: none">• One box of 4- by 4-inch bandages• One roll of gauze• One medical mask (N95)• One pair of examination gloves• One blanket <p data-bbox="659 1283 1435 1388">Ask the participants to wear comfortable clothes for the next session because they will be practicing medical techniques.</p> <p data-bbox="659 1430 1424 1535">Thank the participants for attending the session. Remind them of the date and time for the next session if necessary.</p>