

FIRE EXTINGUISHERS:

How & When To Use Them (Concise)

Leader's Guide, Fact Sheet & Quiz

Item Number: 1544
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This easy-to-use Leader's Guide is provided to assist in conducting a successful presentation.

PREPARING FOR THE MEETING

Here are a few suggestions for using this program:

- a) Review the contents of the Fact Sheet that immediately follows this page to familiarize yourself with the program topic and the training points discussed in the program. The Fact Sheet also includes a list of Program Objectives that details the information that participants should learn from watching the program.
- b) If required by your organization, make an attendance record to be signed by each participant to document the training to be conducted.
- c) Prepare the area and equipment to be used for the training. Make sure the watching environment is comfortable and free from outside distractions. Also, ensure that participants can see and hear the TV screen or computer monitor without obstructions.
- d) Make copies of the Review Quiz included at the end of this Leader's Guide to be completed by participants at the conclusion of the presentation. Be aware that the page containing the answers to the quiz comes <u>before</u> the quiz itself, which is on the final page.

CONDUCTING THE PRESENTATION

- a) Begin the meeting by welcoming the participants. Introduce yourself and give each person an opportunity to become acquainted if there are new people joining the training session.
- b) Introduce the program by its title and explain to participants what they are expected to learn as stated in the Program Objectives of the Fact Sheet.
- c) Play the program without interruption. Upon completion, lead discussions about your organization's specific policies regarding the subject matter. Make sure to note any unique hazards associated with the program's topic that participants may encounter while performing their job duties at your facility.
- d) Hand out copies of the review quiz to all of the participants and make sure each one completes it before concluding the training session.

1544 FIRE EXTINGUISHERS: How & When To Use Them (Concise) FACT SHEET

LENGTH: 9 MINUTES

PROGRAM SYNOPSIS:

Workplace fires can be catastrophic because of the number of people who can be affected and the types of materials stored on the jobsite. These fires can quickly spread out of control, causing severe damage to property and human life. Taking the proper action when first discovering a fire can save lives and reduce property damage. Often the use of a fire extinguisher can minimize the effects of a fire. You must remember, however, that just because a fire extinguisher is available does not mean it should be used. Using a fire extinguisher at the wrong time or in an improper manner can be a fatal error. The most important thing to learn about fire extinguishers is how and when to use them.

This program stresses to viewers the importance of making the right decisions when a workplace fire breaks out. In order to use a portable fire extinguisher to put out the fire, employees must determine the type of material burning and class of fire present, if they know how to use the appropriate fire extinguisher and if the fire is in its beginning stages. More importantly, they must be confident in their ability to evacuate the facility safely should they be unable to extinguish the fire.

Topics of the video include the fire triangle, incipient stage fires, classes of fires and the extinguishers used to put them out, the "PASS" system and emergency evacuation.

PROGRAM OBJECTIVES:

After watching the video, the viewer will be able to explain the following:

- Specific situations where it would be unsafe to use a fire extinguisher to put out a fire;
- The four classes of fire and the types of extinguishers used to put them out;
- The importance of becoming familiar with the extinguishers in your work area;
- The "PASS" system and other firefighting procedures.

PROGRAM OUTLINE

HAZARDOUS WORK AREAS

- Some work areas have materials present or are configured in such a way that fighting even small fires with a portable extinguisher is too dangerous.
- Employees in these work areas will be instructed not to use fire extinguishers. They must follow the company's emergency plan and evacuate the facility in the event of a fire.
- Do not attempt to fight a fire when you are not authorized to do so. Check with your supervisor if you are unsure if it is safe to use a fire extinguisher in your work area.

SPECIFIC CONDITIONS FOR FIRE EXTINGUISHER USE

- When workers are allowed to use fire extinguishers, three very specific conditions must be met:
- Only use a portable fire extinguisher on small fires in their incipient or beginning stages;
- Only use a fire extinguisher when you know what type of material is burning;
- 3 Only use a fire extinguisher when you have been trained and authorized to do so.

THE FIRE TRIANGLE

- Every fire needs three things to burn: fuel, oxygen and an ignition source.
- Once these three elements are combined, a fire is born. The fire is always dependent on these three elements. When one is taken away, the fire will die.

INCIPIENT STAGE FIRES

Fires are most easily extinguished right after they start. Fires in this stage are referred to as incipient stage fires.

- Incipient stage fires are generally confined to their point of origin and have not significantly spread to other materials.
- Quick and proper use of a portable fire extinguisher can put out an incipient stage fire and prevent it from spreading.
- Once a fire has spread beyond its incipient stage, do not attempt to extinguish it with a portable extinguisher. This type of fire is spreading too fast, is too hot and too dangerous to be controlled by a portable fire extinguisher.
- When large, spreading fires are discovered, do not attempt to fight them. Sound the alarm and evacuate according to the emergency plan.
- When you discover an incipient stage fire, you must know which type of material is burning. You must also know which type of extinguisher to select and know how to operate it before attempting to extinguish it.

CLASS A FIRES

- Fires are divided into four classes. You must understand that all extinguishers are not appropriate for each class of fire.
- Class A fires consist of wood, paper, cloth, rubber or similar materials. One type of extinguisher for Class A fire is a water-based extinguisher.
- To use a Class A water-based extinguisher, remove the extinguisher from the holder and pull the pin. Approach to a distance of about 10 feet and aim the nozzle at the base of the fire.
- To discharge the extinguisher, squeeze down on the trigger located on the top of the handle. Sweep the stream of water slowly from side to side.
- Concentrate the water stream on the base of the fire. This is where the fire's fuel supply is located.
- Saturating the fuel supply with water extinguishes the fire because the temperature required for combustion has been increased. In other words, wet cardboard requires much more heat than dry cardboard.
- After the fire is out, back away slowly. Don't turn your back on the fire; keep watch until the fire department arrives.

CLASS B FIRES

- Class B fires are fueled by flammable liquids, which include gasoline, oil, kerosene and paint thinner. These fires ignite when vapors given off by the liquid come in contact with an ignition source such as a spark from static electricity.
- To extinguish a Class B fire, the fire must be smothered by removing the air supply from the fire.
- When using a carbon dioxide extinguisher, you must stand closer to the fire (about three to five feet). Carbon dioxide is expelled as a gas and will only travel a short distance.
- When using this type of extinguisher, aim it at the base of the fire and sweep from side to side in a slow, smooth motion.
- Never use a Class A water-based extinguisher on a flammable liquid fire; this will cause the fire to spread rapidly.

CLASS C FIRES

- Electrical equipment such cords, motors, tools and other devices can become overheated and cause a fire. Fires caused by electricity are known as Class C fires.
- Class C extinguishers are rated for use on electrical fires. Use only a Class C extinguisher on an electrical fire because the extinguishing agent is non-conductive, reducing the risk of electric shock while extinguishing the fire.
- Class C extinguishers use various types of agents, including halatron, dry chemicals and carbon dioxide. The multipurpose ABC type extinguisher can be used.
- No matter what agent is used, just make sure the extinguisher is rated for Class C fires. Using extinguishers not designed for electrical fires, such as the Class A water-based extinguisher, can produce deadly results.
- After sounding the fire alarm, the first thing to do before attempting to put out an electrical fire is to turn off the electricity. If the electricity is not turned off, the fire can re-ignite once the effects of the extinguisher dissipate.
- After turning off the electricity, get a Class C extinguisher and pull the pin. Aim the nozzle at the base of the fire and approach to a distance of about 10 feet, then squeeze the trigger to discharge the extinguisher.
- Approach the fire slowly, sweeping from side to side to cover the base of the fire evenly with the extinguishing agent. When the fire is out, back away slowly and stand watch until the fire department arrives.

THE "PASS" SYSTEM

- The four common steps in the use of fire extinguishers can be remembered by using the first letter of each step: Pull the pin; Aim the nozzle; Squeeze the trigger: Sweep from side to side.
- Using the word "PASS" as a memory tool is a good way to remember these four steps.

BECOME FAMILIAR WITH FIRE EXTINGUISHERS

- Your company has selected extinguishers rated for the types of fires that are most likely to be found in your workplace. These extinguishers are labeled for the class of fire for which they are designed.
- Many companies choose a multipurpose extinguisher rated for Class A, B and C fires. Take note of the types of fires your extinguishers will put out.
- The time to find out what type of extinguishers are readily available is before a fire breaks out. If you have any questions about the fire extinguishers, the type of fire most likely to occur in your work area or your facility's emergency action plan, ask your supervisor.
- Keep in mind that extinguishers come in different sizes. Some work areas have small ones that weigh about three pounds, while other areas use larger extinguishers weighing up to 30 lbs.
- Try to lift the extinguishers in your work area. If the extinguisher is too heavy for you, do not attempt to use it.

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ANSWERS TO THE REVIEW QUIZ

- 1. a
- 2. c
- 3. d
- 4. a
- 5. b

FIRE EXTINGUISHERS:

How & When To Use Them (Concise) REVIEW QUIZ

The following questions are provided to determine how well you understand the information presented in this program.

NameDate	
1.	Before attempting to use any fire extinguisher, you must be trained and authorized by your company.
	True
b.	False
2.	Every fire needs a fuel source, fuel and to burn.
	Hydrogen
	Nitrogen
	Oxygen Carbon dioxide
ч.	Curbon Gloxide
3.	Which of the following situations would make it unsafe to fight a fire with a fire extinguisher?
	The fire has spread beyond the incipient stage
	You don't know what type of material is burning
	The extinguisher is too heavy for you to lift All of the above
u.	All of the above
4.	You should never use a Class A water-based extinguisher on fires fueled by flammable liquids or ignited by electricity.
a.	True
b.	False
5.	If the fire extinguisher you are using runs out of extinguishing agent, you should immediately go for another one and
continue fighting the fire.	
-	True
b.	False