



Training Solutions, Delivered!

CAL/OSHA FIRE EXTINGUISHERS

**Leader's Guide, Fact Sheet
& Quiz**

Item Number: 5206

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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 before 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.

5206 CAL/OSHA FIRE EXTINGUISHERS FACT SHEET

LENGTH: 10 MINUTES

PROGRAM SYNOPSIS:

Workplace fires are more common than you might think and understanding the proper use of fire extinguishers is an important part of employee training. The proper use of a fire extinguisher can prevent injuries and save lives. This program provides an overview of the proper use of fire extinguishers by employees. It also explains how and when to use a fire extinguisher and makes clear when you should not use a fire extinguisher.

Topics include how a fire burns, classes of fires, types of extinguishers, the Class ABC extinguisher, deciding whether to use an extinguisher, proper use of an extinguisher and inspection and maintenance of extinguishers.

PROGRAM OBJECTIVES:

After watching the program, the participant will be able to explain the following:

- The options available to California employers regarding fire response and the use of fire extinguishers;
- Classes of fires and the appropriate extinguishers used to extinguish them;
- The conditions that must be considered when deciding to fight a fire;
- The proper use of the “PASS” system to extinguish a fire;
- The issues to look for during extinguisher inspection and maintenance.

INSTRUCTIONAL CONTENT:

EMPLOYER FIRE RESPONSE OPTIONS UNDER CAL/OSHA

- California OSHA has specific requirements on the placement, use, maintenance and testing of portable fire extinguishers that are made available for employee use.
- In California, employers may choose to write and implement a fire safety plan that requires the immediate and total evacuation of all employees upon the sounding of a fire signal alarm.
- Employers covered by Cal/OSHA may choose not to provide fire extinguishers for employee use in their workplace, in which case all employees must be required to evacuate in the event of a fire emergency.
- Employers may also designate a “team” or “task force” to respond to fires within their workplace. Under California OSHA laws, employers shall provide those who have been designated to use firefighting equipment as part of an emergency action plan with training once upon initial assignment and at least annually thereafter.

EMPLOYEE TRAINING

- If your employer does provide fire extinguishers and does allow employees to use those fire extinguishers, it’s important for you to understand when and how to safely use them.
- Most people have never used a fire extinguisher and it takes some training and practice to use one properly.
- If you are not trained and authorized to use a fire extinguisher, then you should not attempt to do so and must evacuate in the event of a fire.
- Hands-on training may be conducted by the local fire department, a fire extinguisher distributor or a designated person within your company.
- During your training, you will learn that the pressurized force of the extinguishing agent being expelled can be strong, so you must be prepared to have a firm grip on the extinguisher. An extinguisher is quite loud during use, so you need to be prepared.
- During your training you will practice the four steps to using a fire extinguisher:
Step 1: Pull the pin.
Step 2: Aim the nozzle at the base of the fire.
Step 3: Squeeze the trigger to discharge the extinguishing agent.
Step 4: Sweep the nozzle from side to side while aiming at the base of the fire.

HOW A FIRE BURNS

- Before learning how to use a fire extinguisher to extinguish a fire, you need to understand how a fire burns as well as the five different classes of fire.
- A fire needs three elements to burn: fuel, oxygen and a heat source. The fire must have all three elements to continue burning. If any one element is removed, the fire will be extinguished.
- That's the purpose of a fire extinguisher. It removes or neutralizes one or more of these three elements.

CLASSES OF FIRES & TYPES OF EXTINGUISHERS

- There are multiple classes of fire and some classes require a special type of fire extinguisher be used in order to put out the fire. Using the wrong type of extinguisher on a fire can have disastrous consequences and cause the fire to spread.
- Fire extinguishers are categorized by the class of fire they are designed to extinguish.
- Class A fires are fueled by common combustible materials such as paper or wood. These fires can be put out with a Class A air-pressurized water extinguisher.
- Class B fires involve flammable liquids, including gasoline, kerosene and alcohol. Water should never be used to extinguish Class B fires because water can make this type of fire spread.
- A BC rated extinguisher that uses carbon dioxide or an ABC-rated extinguisher that uses a dry chemical powder are common types of extinguishers which can be used on Class B fires.
- Class C fires are those occurring in electrical equipment connected to a live electrical source. They also may be extinguished with a BC or ABC extinguisher. Never spray water on an electrical fire due to the risk of electric shock.
- Class K fires are fueled by cooking oils or fats which are commonly found in cooking appliances. Class K extinguishers use potassium acetate expelled as a fine mist to avoid spreading hot grease and to help cool the cooking appliance after the fire is out.

THE CLASS ABC EXTINGUISHER

- As you have seen, selecting the correct extinguisher for the class of fire is critical. This is why the Class ABC extinguisher is so popular. An ABC extinguisher is effective in putting out Class A, B and C fires and is the type of extinguisher you are most likely to use should a fire break out in your workplace.
- The Class ABC extinguisher uses a powder such as monoammonium phosphate to remove the oxygen from around the fire, starving the fire of one of its needed elements.
- As we mentioned earlier, no matter what type of extinguisher you use, it must be the type intended for the class of fire that is burning. All extinguishers are labeled with this important information.
- It's important to understand which class of fire is most likely to occur at your facility and the nearest location of the proper type of fire extinguisher.

DECIDING WHETHER TO USE AN EXTINGUISHER

- Besides having the right type of extinguisher, there are other conditions that you must consider before using a fire extinguisher. Never risk your life to try and put out a fire if it is unsafe to do so.
- When you initially notice any type of fire, the first action you must take is to alert others and sound the fire alarm. Only after the alarm is sounded should you consider using a fire extinguisher.
- In order to extinguish a fire, the fire must be in its incipient stage, meaning that it has just begun and is small enough that you can put it out easily with an extinguisher. Fire extinguishers aren't designed to put out large fires.
- If there is an abundance of smoke present, do not fight the fire. Smoke from fire can quickly overwhelm and incapacitate you. Smoke kills more people each year than the actual fire. When smoke is heavy, evacuate the premises.
- Before attempting to extinguish a fire, you must have a viable escape route in sight and are confident that you won't be trapped if the fire gets out of control.
- If for any reason you are unsure if you can extinguish a fire safely, don't take any chances by using an extinguisher. Evacuate the premises immediately and close any doors behind you to help prevent the fire from spreading.

PROPER USE OF A FIRE EXTINGUISHER

- After sounding the alarm, remove the extinguisher from its mount.

- Approach the fire and use the “PASS” method to discharge the extinguisher and put out the fire. The “PASS” method uses the word “PASS” as a memory tool to remind you of the following four steps to be followed to properly operate a fire extinguisher.
- Step 1: Pull the pin. Step 2: Aim the nozzle at the base of the fire. Step 3: Squeeze the trigger to discharge the extinguishing agent. Step 4: Sweep the nozzle from side to side.
- To ensure the fire has been completely extinguished, you should continue discharging the extinguisher at the base of the fire until the extinguisher is empty. Many fires appear to be out only to flare up again.
- If the extinguisher runs out before the fire is out, don’t waste precious time by trying to find another one. Place the empty extinguisher on its side and evacuate according to your organization’s emergency plan.

FIRE EXTINGUISHER INSPECTION & MAINTENANCE

- To ensure that fire extinguishers are always ready to effectively fight a fire, they must be inspected and maintained on a regular basis.
- Extinguishers should be inspected at least once a month to ensure they are in good shape. Weekly inspections are required for those extinguishers that are located outdoors.
- During an inspection, make sure the pressure gauge indicates that it’s fully charged. Also, the locking pin and tamper seal should also be in place and intact.
- The hose and horn should be in good shape and unobstructed. Also, all metal parts should be corrosion-free.
- Any time an extinguisher is used, despite the duration, it must be serviced and recharged.
- Extinguishers should be mounted on wall hangers or in marked fire extinguisher cabinets so they can easily be seen.
- Access to fire extinguishers must not be blocked. Never store items in front of a fire extinguisher.
- California OSHA also requires that most fire extinguishers be serviced by an extinguisher servicing company on an annual basis. When this occurs, a tag will be attached to it that contains an expiration date.
- During monthly inspections, make sure the service expiration date on the tag has not passed. If it has, the extinguisher must be removed and sent to be re-serviced.

**CAL/OSHA FIRE EXTINGUISHERS
ANSWERS TO THE REVIEW QUIZ**

1. b

2. a

3. c

4. d

5. b

6. c

7. a

8. b

9. b

10. a

CAL/OSHA FIRE EXTINGUISHERS
REVIEW QUIZ

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

Name _____ Date _____

1. Under California OSHA laws, employers must provide those who have been designated to use firefighting equipment with training once upon initial assignment and at least _____ thereafter.
 - a. Monthly
 - b. Annually
 - c. Every 2 years
2. Both Class B and Class C fires should never be extinguished with water.
 - a. True
 - b. False
3. Which class of fire occurs in electrical equipment connected to a live electrical source?
 - a. Class A
 - b. Class B
 - c. Class C
 - d. Class K
4. Which type of fire extinguisher would you most likely use if a fire broke out in your workplace?
 - a. A
 - b. B
 - c. BC
 - d. ABC
5. You should only risk your life to try to put out a fire if you are confident that you can extinguish it before it gets out of control.
 - a. True
 - b. False
6. What is the first action to take when you notice any type of fire?
 - a. Determine if it is in its incipient stage
 - b. Locate and grab the nearest fire extinguisher
 - c. Alert others and sound the fire alarm
7. Smoke kills more people each year than fires.
 - a. True
 - b. False
8. The "P" in "PASS" stands for _____.
 - a. Push
 - b. Pull
 - c. Press
9. If an extinguisher discharges completely before a fire is out, you should locate another one and continue fighting the fire until it is out.
 - a. True
 - b. False
10. Any time an extinguisher is used, despite the duration, it must be serviced and recharged.
 - a. True
 - b. False