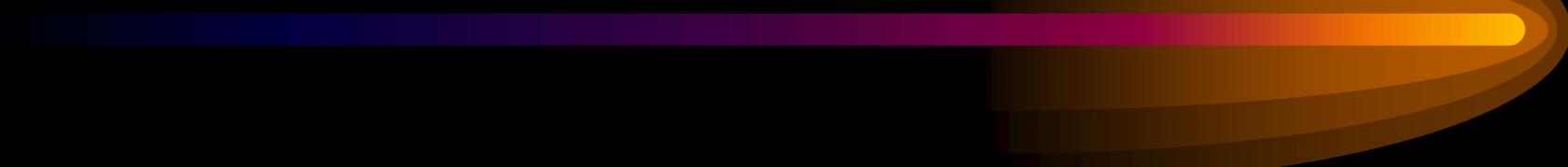


# *City Of Newton Fire Department*



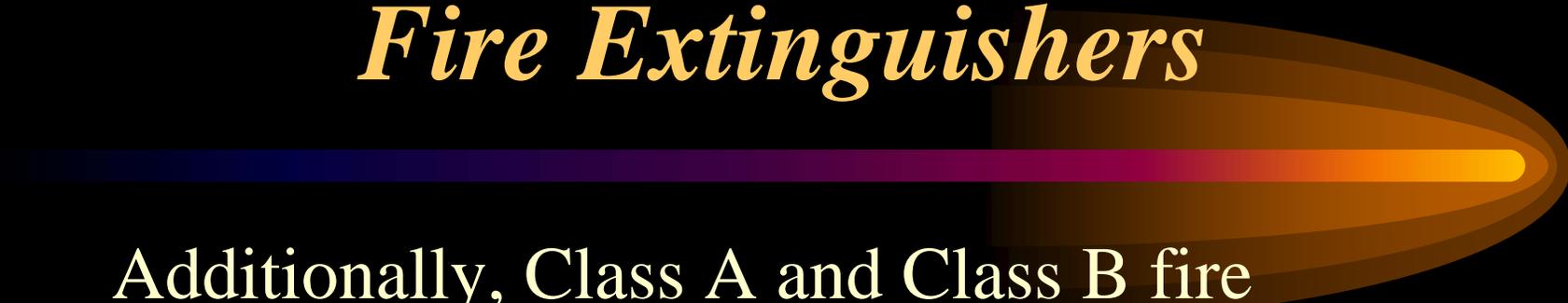
## **Public Education Training For Portable Fire Extinguishers**

**Presented by:  
Fire Inspector  
Adam Cloninger**

# *Fire Extinguishers*

There are basically four different types or classes of fire extinguishers, each of which extinguishes specific types of fire. Newer fire extinguishers use a picture/labeling system to designate which types of fires they are to be used on. Older fire extinguishers are labeled with colored geometrical shapes with letter designations. We will discuss both types of labels and the description of the different classes of extinguishers.

# *Fire Extinguishers*



Additionally, Class A and Class B fire extinguishers have a numerical rating which is based on tests conducted by Underwriter's Laboratories that are designed to determine the extinguishing potential for each size and type of extinguisher.

# *Fire Extinguishers*



Below are the four topics that we will cover today.

- Fire Extinguisher Ratings
  - Multi-Class Ratings
- Types of Fire Extinguishers
- How to Use a Fire Extinguisher

# *Fire Extinguishers Ratings*

**Class A Extinguishers** will put out fires in ordinary combustibles, such as wood and paper. The numerical rating for this class of fire extinguisher refers to the amount of water the fire extinguisher holds and the amount of fire it will extinguish.



# *Fire Extinguishers Ratings*

**Class B Extinguishers** should be used on fires involving flammable liquids, such as grease, gasoline, oil, etc. The numerical rating for this class of fire extinguisher states the approximate number of square feet of a flammable liquid fire that a non-expert person can expect to extinguish.



# *Fire Extinguishers Ratings*

**Class C Extinguishers** are suitable for use on electrically energized fires. This class of fire extinguishers does not have a numerical rating. The presence of the letter “C” indicates that the extinguishing agent is non-conductive.



# *Fire Extinguishers Ratings*

**Class D Extinguishers** are designed for use on flammable metals and are often specific for the type of metal in question. There is no picture designator for Class D extinguishers. These extinguishers generally have no rating nor are they given a multi-purpose rating for use on other types of fires.



# *Multi-Class Ratings*

Many extinguishers available today can be used on different types of fires and will be labeled with more than one designator, e.g. A-B, B-C, or A-B-C. Make sure that if you have a multi-purpose extinguisher it is properly labeled.



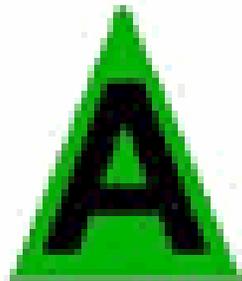
# *Multi-Class Ratings*

This is the new style of labeling that shows this extinguisher may be used on Ordinary Combustibles, Flammable Liquids, or Electrical Equipment fires. This is the new labeling style with a diagonal red line drawn through the picture to indicate what type of fire this extinguisher is **NOT** suitable for. In this example, the fire extinguisher could be used on Ordinary Combustibles and Flammable Liquids fires, but not for Electrical Equipment fires.

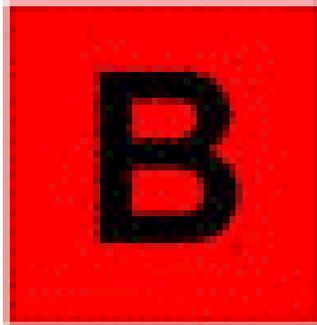


# *Multi-Class Ratings*

This is the old style of labeling indicating suitability for use on Class A, B, and C fires.



Ordinary  
Combustibles



Flammable  
Liquids



Electrical  
Equipment

# *Types of Fire Extinguishers*



**Dry Chemical** extinguishers are usually rated for multiple purpose use. They contain an extinguishing agent and use a compressed, non-flammable gas as a propellant.

# *Types of Fire Extinguishers*



**Halon** extinguishers contain a gas that interrupts the chemical reaction that takes place when fuels burn. These types of extinguishers are often used to protect valuable electrical equipment since they leave no residue to clean up. Halon extinguishers have a limited range, usually 4 to 6 feet. The initial application of Halon should be made at the base of the fire, even after the flames have been extinguished.

# *Types of Fire Extinguishers*



**Water** These extinguishers contain water and compressed gas and should only be used on Class A (ordinary combustibles) fires.

# *Types of Fire Extinguishers*



**Carbon Dioxide (CO<sub>2</sub>)** extinguishers are most effective on Class B and C (liquids and electrical) fires. Since the gas disperses quickly, these extinguishers are only effective from 3 to 8 feet. The carbon dioxide is stored as a compressed liquid in the extinguisher; as it expands, it cools the surrounding air. The cooling will often cause ice to form around the “horn” where the gas is expelled from the extinguisher. Since the fire could re-ignite, continue to apply the agent even after the fire appears to be out.

# *How to Use a Fire Extinguisher*

Even though extinguishers come in a number of shapes and sizes, they all operate in a similar manner. Here's an easy acronym for fire extinguisher use:

**P A S S**

**P**ull, **A**im, **S**queeze, and **S**weep

# *How to Use a Fire Extinguisher*



**Pull** the pin at the top of the extinguisher that keeps the handle from being accidentally pressed.

# *How to Use a Fire Extinguisher*



**Aim** the nozzle toward  
the base of the fire.



# *How to Use a Fire Extinguisher*

Stand approximately 8 feet away from the fire and **squeeze** the handle to discharge the extinguisher. If you

release the handle, the discharge will stop.



# *How to Use a Fire Extinguisher*

**Sweep** the nozzle back and forth at the base of the fire. After the fire appears to be out, watch it carefully since it may re-ignite!



# *How to Use a Fire Extinguisher*

**Congratulations** -- you did it!!!

