MCCTC CBI Program



Fire Safety in the Workplace

8.1.1: Use Materials Properly and Safely "Fire Extinguishers"

Fire extinguishers are divided into five classes, based on different types of fires.

Class "A" Stands for "Ash"

Class "B" Stands for "Barrel"

Class "C" Stands for "Current"

Class "D" Has no designation

Class "K" Stands for "Kitchen"

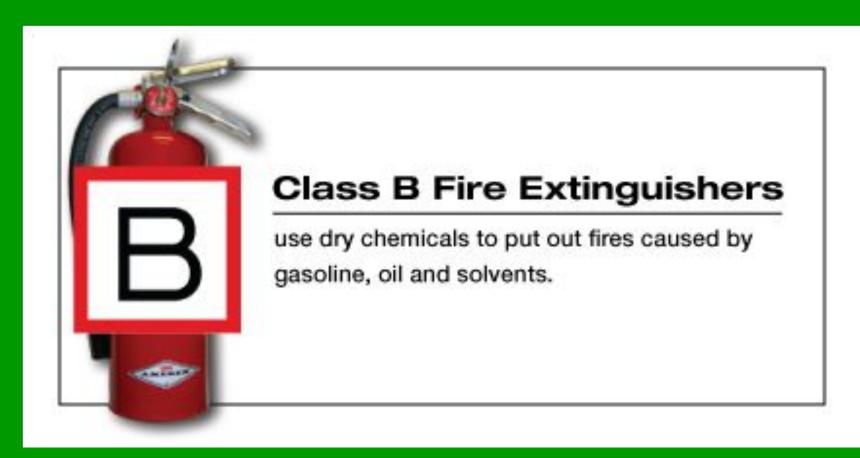
Types of Fire Extinguishers Class "A"



Class A Fire Extinguishers

contain water for use against fires involving ordinary combustibles like paper, wood, cloth and most plastics.

Types of Fire Extinguishers Class "B"



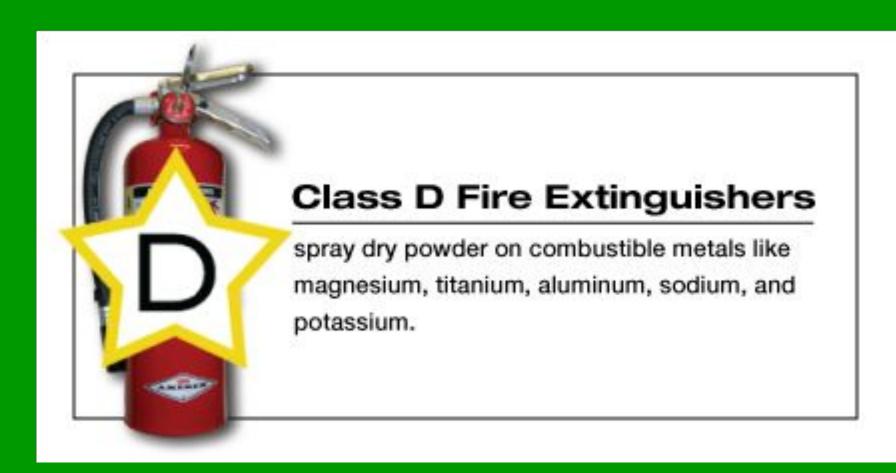
Types of Fire Extinguishers Class "C"



Class C Fire Extinguishers

contain carbon dioxide for use against electrical fires.

Types of Fire Extinguishers Class "D"



Types of Fire Extinguishers Class "K"

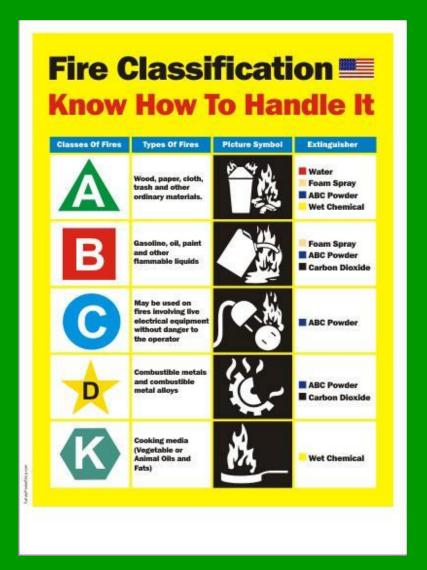


Class K Fire Extinguishers

use a wet, potassium acetate-based, low pH agent to put out "cooking" fires in which there are animal or vegetable oils and fats.

Types of Fire Extinguishers

Labels on extinguishers may also have symbols representing the class.



How do Fire Extinguishers Work?

At the top of the cylinder, there is a smaller cylinder filled with compressed gas. A release valve acts as a locking mechanism and prevents this gas from escaping. When you pull the safety pin and squeeze the lever, the lever pushes on an actuating rod which presses the valve down to open a passage to the nozzle. The compressed gas is released, applying a downward pressure on the fire-extinguishing material. This pushes the material out the nozzle with high amounts of pressure.



How to use a Fire Extinguisher

Pull the Pin at the top of the extinguisher. The pin releases a locking mechanism and will allow you to discharge the extinguisher.

Aim at the base of the fire, not the flames. This is important - in order to put out the fire, you must extinguish the fuel.

Squeeze the lever slowly. This will release the extinguishing agent in the extinguisher. If the handle is released, the discharge will stop.

Sweep from side to side. Using a sweeping motion, move the fire extinguisher back and forth until the fire is completely out. Operate the extinguisher from a safe distance, several feet away, and then move towards the fire once it starts to diminish. Be sure to read the instructions on your fire extinguisher - different fire extinguishers recommend operating them from different distances. Remember: Aim at the base of the fire, not at the flames!!!!

PASS

Demonstration

