

OSC 12
Ohio Safety Congress & Expo

WELL AT HOME. SAFE AT WORK.

263 Fire Extinguishers: How Much Do You Really Know?

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Thursday, March 29, 11:15 a.m. to 12:15 p.m.

Ohio Bureau of Workers' Compensation

STATE OF OHIO
DEPARTMENT OF COMMERCE

Department of Commerce
Division of State Fire Marshal

**Fire Extinguishers:
How much do you really know?**

Jason Corwin
Fire Safety Educator
Fire Prevention Bureau

Fire Prevention Bureau

- Who we are
 - Chief Hank Kauffman
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 - 1-888-243-0305
 - websfm@com.state.oh.us
 - www.com.ohio.gov/fire

Fire Educator Districts

What is a Portable Fire Extinguisher?

According to NFPA 10 (2002), a portable device, carried or on wheels and operated by hand, containing an extinguishing agent that can be expelled under pressure for the purpose of suppressing or extinguishing fire.

What is a Portable Fire Extinguisher?

Parts of a portable fire extinguisher



Portable fire extinguisher operation

• Remember **P.A.S.S.**

- **P**ull
- **A**im
- **S**queeze
- **S**weep



Extinguishing Methods

- Smothering
 - Oxygen Exclusion
- Cooling
 - Reduce burning material below its ignition temperature
- Chain Breaking
 - Interrupting the chemical reaction
- Saponification
 - Forming an oxygen excluding soapy foam



Classifications of Fire

CLASS	CLASSES OF FIRES	TYPES OF FIRES	PICTURE SYMBOL
A	A	Wood, paper, cloth, trash & other ordinary materials.	
B	B	Gasoline, oil, paint and other flammable liquids.	
C	C	May be used on fires involving live electrical equipment without danger to the operator.	
D	D	Combustible metals and combustible metal alloys.	
K	K	Cooking media (Vegetable or Animal Oils, and Fats)	



Classifications of Fire

- Class A
 - Ordinary Combustibles: Paper, Plastic, Cloth, Wood
 - Leaves behind an "A"sh when it burns
- Class B
 - Flammable Liquids: Gasoline, Oil, Kerosene, Grease
 - Liquids that "B"oil when heated
- Class C
 - Electrical Fires, or equipment powered by electric
 - Involves an electric "C"urrent or "C"ircuit



Classifications of Fire

- Class D
 - Combustible Metals or Metal Alloys
- Class K
 - Cooking Fires: Animal or Vegetable Oils and Fats
 - Typically found in commercial "K"itchens



Types of Extinguishers





Removing Extinguisher from Service

- Missing or defective extinguishers must be replaced immediately
- Replacement should:
 - Serviced within last year
 - Be tagged & signed



Value of Extinguishers

- Serviceability
- Accessibility
- Simplicity of operation



QUESTIONS?

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