

## Chapter 7

### FIRE SAFETY

See PSU Policy SY02 People Requiring Assistance

See PSU Policy SY08 Storage and Use of Flammable Liquids

See PSU Policy SY09 Fire Extinguisher Provision

See PSU Policy SY12 Weapons and Fireworks Regulation

See PSU Policy SY013 Open Fires

See PSU Policy SY27 Halogen Lamps

See PSU Policy SY30 Open Flame Devices

See EHS Fire Protection and Prevention at: <http://www.ehs.psu.edu/fire.html>

See PSU Policy SY28 Emergency Evacuation and Fire Drills - Residence Halls

The Pennsylvania State University has specific policies and guidelines regarding fire prevention, safety, and response. Please read and become familiar with the policies and guidelines listed above. Fire safety is for YOUR PROTECTION. Please take it seriously.

- Prevention and preparedness are the keys to fire safety.
- Know the safe handling procedures and potential fire hazards for all equipment, chemicals, and machinery you will be using.
- Know your work area, the locations of emergency exits, the locations and types of fire extinguishers, and emergency response phone numbers.
- It is recommended that anyone handling potentially flammable materials make arrangements to receive fire extinguisher training from EHS.
- Read Chapter 13, Section m 2.2 , Flammable Liquids.

#### 7.1. Emergency Procedure

**In the event of a fire, err on the side of caution.**

- *Sound the fire alarm.*
- *Call emergency response personnel at 911*

- If fire is not controllable, leave area, closing all doors behind you, to help prevent the fire from spreading.
- If you are trained in the use of appropriate fire extinguishers and that extinguisher is located within a safe distance from the fire and conditions are not life threatening, you may attempt to contain/control the fire.

## **7.2 Fire Extinguishers**

### **See PSU Policy SY09 Fire Extinguisher Provision See Appendix C, Chart of Fire Extinguisher Class and Application**

The University will purchase and install the required hand-portable fire extinguishers necessary for protection purposes within each building. Generally this will include fire extinguishers for the protection of the building structure, and will usually involve extinguishers identified as Class A (water type).

The College and individual departments are responsible for purchasing fire extinguishers specific to the hazards they introduce into the building. Examples would be quantities of flammable liquids, specific electrical equipment, special research apparatus, excessive storage of paper, wood, textiles, etc.

#### **7.2.1 Fire Classifications:**

- Class A - Fires involving ordinary combustibles (wood, paper, textiles)
- Class B - Fires involving flammable liquids and gases.
- Class C - Fires involving all electrical equipment.
- Class D - Fires involving combustible metals (potassium, sodium, etc.).

#### **7.2.2. Fire Extinguishers:**

- Class A - Pressurized Water (anti-freeze available). Also, A-B-C Dry Powder- 5, 10, and 20 lb. sizes.
- Class B - Dry Powder, Carbon Dioxide - 5, 10, and 15 lb. sizes.
- Class C - Dry Powder, Carbon Dioxide - 5, 10, 15, and 20 lb. sizes.
- Class D - Dry Powder (specific design and chemical) - 30 lb. size.

***Fire extinguisher maintenance is provided by the Office of Physical Plant (OPP).***

- OPP must be made aware of the extinguishers used in your area.
- OPP will mount fire extinguishers purchased by the College or Departments. OPP will then place each extinguisher on its regular maintenance list, inspecting and testing the extinguishers annually.

- Each time an extinguisher is discharged, OPP should be contacted for an extinguisher inspection and recharged.