

FIRE SAFETY

LAB ACTIVITIES

1. Shop assessment using Fire Safety Checklist:
 - Divide class in 2-4 groups and assign each group an area of the shop to inspect.
 - Give each group of students a copy of the Fire Safety Checklist on the following page.
 - Give each group of students red tags or colored tape to mark any issues they identify.
 - Ask each group of students to examine ALL fire extinguishers, flammable liquid drums and, paint booth and mixing room lights and electrical conduits in their assigned area, and complete the checklist.
 - All student groups report their findings:
 - How many items were examined?
 - Were any issues identified?
 - Were damaged items marked with tags or colored tape?
 - Collect the inspection sheets and follow-up on identified issues.

2. Explain what students are required to do in case of a fire. Identify the designated area for gathering after evacuation.

3. Show students where oxygen cylinders are stored. Point out the following precautions:
 - ✓ Caps are on when a regulator is not attached
 - ✓ Cylinders are secured to a wall or cart
 - ✓ No combustible materials are present nearby
 - ✓ Flammable gases such as acetylene are used at least 20 ft away (unless separated by a firewall with a 2 hour rating)
 - ✓ Cylinders are not stored on the path leading to an emergency exit
 - ✓ Cylinders are NOT stored under stairs that lead to an exit

4. Point out the explosion-proof features of the paint booth and mixing room.



FIRE SAFETY CHECKLIST

Fire extinguishers:

Check that each extinguisher is:	Extinguisher number							
	1	2	3	4	5	6	7	8
Type water/BC/ABC/D								
Mounted on the wall								
Easy to access								
Fully charged (needle in green area)								
Pin and seal are in place								
Tag is current (within 12 months)								
Tag is signed and dated monthly								

Painting booth:

- Lights are explosion-proof (no damaged or cracked glass panels).
- A fire suppression system is present.
- There are no “regular” electrical outlets or wires in the booth.

Mixing room:

- Lights, switches, electrical outlets and electrical wire conduits inside the room are explosion-proof
- Flammable liquid drums are grounded and bonding wires are present.
- Bonding and grounding clamps attach to BARE metal, not over paint.

Other Fire Safety Issues:

- The metal container with a self-closing lid used to store shop rags is in good condition.

Problems?

_____ No

_____ Yes

Date of inspection: _____

Report all fire safety issues identified to your instructor.

