

FIRE SAFETY

LAB ACTIVITIES

1.

Shop assessment using checklists:

- Divide class in 2-4 groups and assign each group an area of the shop to inspect.
- Give each group of students either a copy of the Fire Safety Checklist, or a copy of the Compressed Gas Cylinders Checklist on the following pages.
- 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, emergency exits, compressed gas cylinders 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 are students required to do in case of a fire. Identify the designated area for gathering in case of evacuation.

3.

Explain what are students required to do in case of a spill. Indicate the location of the clean-up kit, quantify a “small” and a “large” spill amount. Show students how to use the clean-up kit.



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								

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 safety issues identified to your instructor.



EMERGENCY EXITS AND COMPRESSED GAS CYLINDERS CHECKLIST

Emergency exits:

Check that exit is:	Exit number							
	1	2	3	4	5	6	7	8
Marked with an illuminated sign								
Not locked from inside								
Opens towards a safe area (no unguarded openings, stair rails are present)								
Unobstructed								
If leading to a corridor, the subsequent exits are also marked and unlocked								

Compressed gas cylinders:

- All cylinders are secured upright and with their valve caps in place when not in use.
- Cylinders are stored away from traffic and electrical panels.
- Stored oxygen cylinders are separated from acetylene cylinders and combustible materials (oil, gasoline, propane, etc.) by a minimum of 20 ft or by a non-combustible barrier at least 5 ft high

EXCEPTION: oxygen cylinders on an oxyacetylene cart with gauges attached

- Empty cylinders are marked.
- Damaged cylinders are marked.

Problems? _____ No
 _____ Yes Date of inspection: _____

Report all safety issues identified to your instructor.

