



# WEEKLY SAFETY MEETING

## COMPRESSED GAS CYLINDERS

### Use of Cylinders

- ✚ Before using any compressed gas cylinder, identify the gas, its dangers, and emergency procedures. This information can be found on labels, Safety Data Sheets (SDS), and cylinder markings. If you **DO NOT know** what is in a cylinder, **DO NOT use** it.
- ✚ Ensure the complete gas and hose system has been checked for leaks before use. A flame **MUST NEVER** be used to detect a leak.
- ✚ **DO NOT** remove the product identification label or change the cylinder color.
- ✚ Gas cylinders are exposed to many dangers at the job site. Select a location for setting up cylinders which will be exposed to as little contact as possible from moving equipment and material handling.
- ✚ Compressed gas cylinders **SHALL** be chained or otherwise secured in an upright position, and **SHALL** be placed on cylinder carts whenever being moved to a different location.
- ✚ Gauges will be removed and valve protection caps **SHALL** be in place prior to moving the cylinder.
- ✚ Cylinders **SHALL** not be moved by tilting and rolling them on their bottom edges. They **SHALL NOT** be intentionally dropped, struck, or permitted to strike each other violently.
- ✚ Cylinders, full or empty **SHALL NOT** be used as rollers or supports.
- ✚ Cylinders **SHALL** be kept at least ten (10) feet away from the actual welding or cutting operation so that sparks, hot slag, or flame will not reach them. When this is impractical, fire resistant shields **SHALL** be provided.
- ✚ The cylinders should not be exposed to continuous dampness or any kind of corrosive chemicals or fumes, as corrosion may damage them and cause the valve protection caps to rust or stick.
- ✚ Keep the cylinders clear of all electrical equipment or grounding cables and electrical circuits.
- ✚ **NEVER** strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.
- ✚ **NEVER** attempt to lift a cylinder by its valve protection cap or guard.
- ✚ **NEVER** use oxygen as a substitute for compressed air.
- ✚ **NEVER** take gas cylinders into confined spaces.
- ✚ When in use, **DO NOT** open the valve more than 1-1/2 turns to allow for quick closing.
- ✚ For cylinders that are not equipped with a valve handle, a valve wrench **SHALL** be provided and kept on the valve in order to facilitate emergency shutoff.
- ✚ Close the cylinder valve and bleed off all pressure after each use.
- ✚ **NEVER** attempt to repair or modify cylinder valves or safety relief devices.
- ✚ Oxygen under pressure forms an explosive mixture when it comes into contact with oil and grease. Regulators, valves, gauges, and fittings **MUST** not have any oil, grease, or lubricant used on them. **DO NOT** handle these parts with greasy hands or gloves.
- ✚ Use cylinders in the order received from the supplier. When the cylinder is nearly empty, the valve should be closed, and the cylinder marked "EMPTY" or "MT".

### Storage of Cylinders

- ✚ OSHA considers cylinders to be in storage when it is reasonably anticipated that gas will not be drawn from the cylinder within 24 hours. At that point storage requirements **MUST** be met.
- ✚ Oxygen cylinders in storage **SHALL** be separated from fuel-gas cylinders or combustible materials (especially oil or grease), by a minimum distance of twenty (20) feet, or by a non-combustible barrier at least 5 feet high and having a fire-resistance rating of at least one-half hour (30 minutes).
- ✚ **ALWAYS** store compressed gas cylinders in an area which is specifically designated for that purpose. It should be well-ventilated and away from highly combustible materials.
- ✚ Valve protection caps **SHALL** be in place and secured to protect the valve whenever the cylinder is not in use, being moved, in storage, or empty.
- ✚ **ALWAYS** store cylinders securely. Cylinders should be securely placed on a level surface and chained to prevent tipping over and should not be stored near elevators, stairs, and walkways, or other places where they are likely to be knocked over.
- ✚ Store cylinders so as to avoid the possible destruction or obscuring of the cylinder coloring, tags, and other means of identifying the cylinder contents.
- ✚ **NEVER** store tools, materials, rope, extension cords, clothing or anything else on top of cylinders.

Meeting Date: \_\_\_\_\_  
 Supervisor: \_\_\_\_\_

Trainer: \_\_\_\_\_  
 Location: \_\_\_\_\_

**Attendees: (Please print clearly)**

_____	_____	_____
_____	_____	_____
_____	_____	_____



# WEEKLY SAFETY MEETING

## COMPRESSED GAS CYLINDERS QUIZ

1. Ensure the complete gas and hose system has been checked for leaks before use. A flame **MUST NEVER** be used to detect a leak. True or False? \_\_\_\_\_
2. Compressed gas cylinders **SHALL** be chained or otherwise secured in an upright position with non-flammable material, and **SHALL** be placed on cylinder carts whenever being moved to a different location. True or False? \_\_\_\_\_
3. Cylinders **SHALL** be kept at least \_\_\_\_ feet away from the actual welding or cutting operation so that sparks, hot slag, or flame will not reach them.  
A. 4  
B. 6  
C. 8  
D. 10  
\_\_\_\_\_
4. **NEVER** strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit. True or False? \_\_\_\_\_
5. Oxygen cylinders in storage **SHALL** be separated from fuel-gas cylinders or combustible materials (especially oil or grease), by a minimum distance of twenty \_\_\_\_\_ feet, or by a non-combustible barrier at least 5 feet high and having a fire-resistance rating of at least one-half hour (30 minutes).  
A. 5  
B. 15  
C. 20  
D. 25  
\_\_\_\_\_
6. Use cylinders in the order received from the supplier. When the cylinder is nearly empty, the valve should be closed, and the cylinder marked "**EMPTY**" or "**MT**". True or False? \_\_\_\_\_
7. Valve protection caps **SHALL** be in place and secured to protect the valve whenever the cylinder is:  
A. Not in use  
B. In storage  
C. Empty  
D. All of the above  
\_\_\_\_\_
8. **NEVER** use oxygen as a substitute for compressed air. True or False? \_\_\_\_\_
9. Before using any compressed gas cylinder, identify the gas, its dangers, and emergency procedures. This information can be found on labels, Safety Data Sheets (SDS), and cylinder markings. If you **DO NOT know** what is in a cylinder, **DO NOT use** it. True or False? \_\_\_\_\_
10. **NEVER** store tools, materials, rope, extension cords, clothing or anything else on top of cylinders. True or False? \_\_\_\_\_



Printed Name: \_\_\_\_\_ Trained by: \_\_\_\_\_

Signature: \_\_\_\_\_ Trained by Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Location: \_\_\_\_\_