

EMPLOYEE TRAINING RECORD

TRAINING TITLE Safe Use of Compressed Gas Cylinders

KEY TEACHING POINTS

- **Compressed gases present several hazards. Labels on the cylinder and the Material Safety Data Sheet (MSDS) supplied with the gas tell you about the hazardous properties of the gas; such as toxic, flammable, or oxidizer. In addition to the gas hazards, compressed gas cylinders pose other hazards simply because they contain gas under pressure.**
- **Regardless of the properties of the gas, any gas under pressure can explode if the cylinder is improperly stored or handled. Making a balloon fly around by suddenly releasing the air is amusing, but a flying cylinder is not so funny. Cylinders are definitely not balloons -- they are hard and heavy. A sudden release of the gas can cause a cylinder to become a missile-like projectile, destroying everything in its path. Cylinders have been known to penetrate concrete-block walls. To prevent such a dangerous situation, there are several general procedures to follow for safe storage and handling of a compressed gas cylinder:**
 - **Store cylinders in an area specifically designed for that purpose. This area must protect the cylinders from being struck by another object. The area must be well ventilated and away from sources of heat. It must be at least 20 feet away from highly combustible materials. Oxidizers must be stored at least 20 feet away from flammable gases.**
 - **Cylinders must not be dropped or allowed to fall. Chain and rack them in an upright position during use and storage. When transporting cylinders, they must be secured from falling.**
 - **Never permit a cylinder to contact live electrical equipment or grounding cables.**
 - **Cylinders must be protected from the sun's direct rays, especially in high-temperature climates. Cylinders must also be protected from ice and snow accumulation.**
 - **Before the gas is used, install the proper pressure-reducing regulator on the valve. After installation, verify the regulator is working, that all gauges are operating correctly and that all connections are tight to ensure there are no leaks. Open the valve with your hands. Never use a wrench or other tool. If you cannot open it with your hands, do not use it.**

REMINDER: Mark all cylinders to indicate if they are FULL, IN USE, or EMPTY.

TEST

QUESTION	ANSWERS	
	TRUE	FALSE
1 Cylinders must not be dropped or allowed to fall.		
2 Store cylinders in an area specifically designed for that purpose.		
3 Oxidizers must be stored at least 20 feet away from flammable gases.		
4 Before the gas is used, install the proper pressure-reducing regulator on the valve.		
5 Never permit a cylinder to contact live electrical equipment or grounding cables.		
EMPLOYEE'S NAME	EMPLOYEE'S SIGNATURE	DATE
INSTRUCTOR'S NAME	INSTRUCTOR'S SIGNATURE	DATE

1. True 2. True 3. True 4. True 5. True