

COMPRESSED GASES

Supplement to Standard Training Module

TRAINING REQUIREMENTS OVERVIEW

This standard Vivid training module provides a general overview of safe handling, storage practices and inspection techniques for portable compressed gas cylinders. Although no particular training regimen is required by the OSHA standard, employees who work with or handle portable compressed gas cylinders **must** know how to inspect, care for, handle, use, and store portable compressed gas cylinders (as defined by the standard and the Compressed Gas Association Pamphlets referenced in the standard).

In addition to the general overview, employees who work with or handle portable compressed gas cylinders ***should*** receive facility and work-specific training. This additional training ***should*** cover:

- Facility-specific policies and procedures on handling cylinders
- Compressed gases used at the facility, including storage, marking and labeling practices and procedures
- Location of storage areas and methods of securement for compressed gas cylinders
- The use and care of applicable regulator and manifold systems
- Special precautions and handling procedures around hazardous operations or processes
- Site-specific tools and devices available for moving pressurized cylinders
- Specific PPE requirements
- Location and availability of MSDS's pertaining to gases in use

The General Duty Clause requires an employer to “provide employment and a place of employment which are free from recognized hazards”. Employee training, appropriate to recognized workplace hazards, is anticipated to be a part of a facility’s overall safety and health program.

Frequency: Training ***should*** be provided to affected employees:

- Upon initial assignment of work
- When recognized hazards change, or new hazards are introduced into the workplace
- When new or modified processes, procedures, and/or equipment are introduced into the workplace

GENERAL OVERVIEW OF THE STANDARD

COMPRESSED GASES 29 CFR 1910.101

PURPOSE: To ensure safe handling, storage and maintenance of pressurized gas cylinders.

1. **SCOPE:**
Applies to occupational exposures of pressurized vessels in covered general industries.

Separate standards are applicable for specific gases used in the facility (such as Acetylene, Hydrogen, Oxygen, Nitrous Oxide and Liquefied Petroleum Gases).

2. **INSPECTION:**
Each employer shall determine that compressed gas cylinders under his control are in a safe condition to the extent that this can be determined by visual inspection. Visual and other inspections shall be conducted as prescribed in the Hazardous Materials Regulations of the Department of Transportation (49 CFR parts 171-179 and 14 CFR part 103). Where those regulations are not applicable, visual and other inspections shall be conducted in accordance with Compressed Gas Association Pamphlets C-6-1968 and C-8-1962, which is incorporated by reference as specified in 29 CFR 1910.6.
3. **STORAGE:**
The in-plant handling, storage, and utilization of all compressed gases in cylinders, portable tanks, rail tank cars, or motor vehicle cargo tanks shall be in accordance with Compressed Gas Association Pamphlet P-1-1965, which is incorporated by reference as specified in 29 CFR 1910.6.

REFERENCE MATERIALS

Associations

Compressed Gas Association

<http://www.cganet.com/>

Website

OSHA website: <http://www.osha.gov/SLTC/compressedgasequipment/index.html>

Related General Industry Standards:

Oxygen-fuel gas welding and cutting CFR 1910.253

Acetylene CFR 1910.102

Hydrogen CFR 1910.103

Oxygen CFR 1910.104

Nitrous Oxide CFR 1910.105

Construction Standards:

Flammable and combustible Liquids 29 CFR 1926.152

Liquefied Petroleum Gas 29 CFR 1926.153