

Compressed Gas

Safety Training Handout

Hazards include

- Fire & Explosion
- Poisoning
- Asphyxiation
- Over exposure
- Impact from falling cylinders
- Frostbite or gas injection under skin
- Missile hazard from broken cylinder heads

Engineering Controls

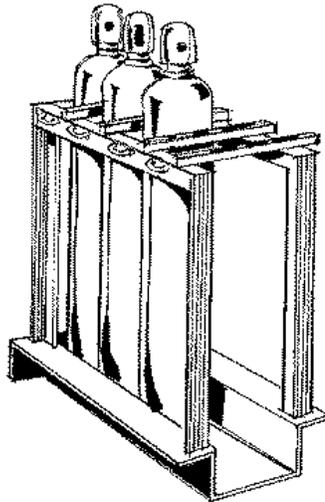
Gas cylinder storage areas
Flow Restrictors
Leak Monitors
Fume hoods
Ventilation systems
Sprinkler systems

Administrative Controls

Inspections
Employee training
Segregation of gas containers
Inspections and audits
Signs & Labels
Personal Protective Equipment use
Identification of authorized employees
Procedures for receipt, use and storage

Storage

Empty & full bottles labeled & separated
Caps installed
Store upright & away from heat sources
Dry & well ventilated area
Oxygen cylinders stored separately
Chained or strapped to prevent tipping
No smoking around storage or use areas
Fuel gas and oxygen stored a minimum of 20 feet apart
or separated by a 1-hour fire wall



Smart Safety Rules

Inspect cylinders, regulators & hoses before each use

Never use a tool to operate cylinder valves – hand operation only

Check cylinder & gas identification

Use a cart or other secure means for moving - never carry or roll gas cylinders

Grease or oils in areas where compressed oxygen is used can cause fire or explosion

Use regulators for all gas cylinder hookups

Use non-sparking tools for flammable gases

Secure cylinders at work areas

Limit pressure to 30 psi or less for air blowdown

Never refill or attempt to repair a gas cylinder

Move leaking cylinders out of buildings – then vent all remaining gas. Mark damaged cylinders "Damaged. Do not Use"

For compressed air systems – check all hose fittings – use a control nozzle with self closing valve at operators end.

Wear safety glasses