



Site & Equipment Safety



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Welcome to the Site & Equipment Safety CBL

Purpose for Training

Samaritan Health Services has created the following training to meet OSHA 1910.1450 and 1910.147 requirements for lockout/tagout and medical gas management education.

Assignment of this training has been approved by SHS Physical and Clinical Engineering Leadership and Professional Development.

Questions? Contact SHS Professional Development at
80-5116 or 541-768-5116

Learning Objectives

When this CBL has been completed, the learner will be able to:

- ✓ Describe ways to **maintain a safe work** environment.
- ✓ Identify and **locate resources** related to equipment and medical gas safety.
- ✓ **Describe the process** to follow if equipment fails and/or someone is injured.

Create a Safe Work Environment

We Are ALL Responsible for creating and maintaining a **safe work environment!**

Stay Alert

Assess Your Area

Approved Equipment

Exit Safety

- ✓ Know where to **appropriately store** Medical Gas Cylinders.
- ✓ Keep **Exits free** of obstructions.



Create a Safe Work Environment

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- ✓ Report any **identified potential hazards** to your manager or supervisor.
- ✓ **Examine cords** for fraying.



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Create a Safe Work Environment

We Are ALL Responsible for creating and maintaining a **safe work environment!**

Stay Alert

Assess Your Area

Approved Equipment

Exit Safety

Only utilize **approved equipment** in your work space

- Follow guidelines for **use of extension cords** and do not leave them across walkways.
- Space heaters/fans **require approval.**



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Exit Safety

Nothing can **obstruct an exit** corridor except **attended carts**, isolation carts and crash carts.



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Interruption of Water or Power

01



In the unlikely event of interruption of water or power, **seek direction** from your manager or supervisor.

02



Note where **alcohol-based cleansers** for hand hygiene are located. **Flashlights and head lamps** are available in the department disaster box.

03



Know your role and **site-specific** procedures in the event of a water or power interruption.



Equipment Safety Resources

You may not remember all information shared in this CBL, but the links to **healthcare standards and SHS policies and procedures** have been added to help you remember **where to look.**

One of the first steps to ensure safe use of equipment is to **know how to locate the standards** associated with equipment safety at your site.

Lock Out/Tag Out Standard Occupational Safety and Health Administration (OSHA)	MRI Safety Guidelines Procedure PolicyTech	Compressed Gas Safety Policy Gas Handling PolicyTech	Patient Care Equipment Reference Grid PolicyTech
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*These policies can be found in [PolicyTech](#).

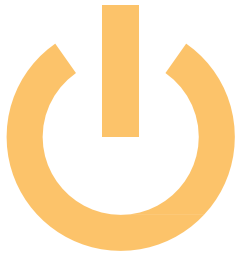
(OSHA, 2018; SHS, 2018; SHS,2019a; SHS, 2019c; SHS 2021)



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Equipment Safety



If equipment is not working properly, check that it is plugged in and set-up correctly.



Do not use equipment if a grounding pin or a prong is missing or broken.



Do not place beverages or plants on top of or nearby electrical equipment.

Equipment Inspection

There are several ways to verify the equipment you are using is safe:



Visually inspect the device/equipment to be sure it is intact and not missing any pieces.



Contact Clinical or Plant Engineering with questions regarding safe use of equipment and to have an item inspected.



If the device/equipment has an internal “self-check” system, allow it to be completed before use.

Relocatable Power Taps (RPT)

Tripp Lite and *Leviton* are the **only approved types** of Relocatable Power Taps (a.k.a. *power strips*) allowed in **patient care areas**.

- They **cannot** be on the floor.
- They **cannot be secured** in a manner that **requires tools** for removal.

(SHS, 2019b)



If Equipment Fails

Notify management for follow up, regardless of the situation!
Management will provide instruction on the current reporting protocol for failed equipment and/or injury.

Lockout and Tag-out

The lockout/tag-out process **establishes a safe way** to shut down **ALL** directly connected equipment for maintenance or repair, **so no one gets hurt.**

Examples:

- Put a locking cap on an **electrical plug** so it can't be plugged in
- Cut **power off** at the main breaker and lock it until the work is done
- Shut off **water at the main** and lock it out

(OSHA, 2018; SHS, 2019c)

**Unless
Authorized, Do
Not Touch**

lock out locks,
remove tag out
labeling, or
attempt to turn
equipment back
on.

Medical Gas Safety



Storage



Handling



Policy Location



Use & Precautions

How **you** can
promote Medical
Gas Safety.



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Medical Gas Storage

Safe medical gas cylinder handling and storage:

- Do not store medical gas cylinders near **sources of heat, open flames, or cylinders of flammable gases.**
- Gas cylinders ***must be secured at all times***
 - Use **specialized racks or chains** to safely store when not in use
 - Reinstall safety cap when not in use, even when empty.
- If you have cylinders stored in your area, ***know the maximum number of cylinders of gas allowed (ask your manager/supervisor if you don't know).***
 - **Hospital:** Maximum of **12 “E-sized” oxygen cylinders** can be stored in a smoke compartment.
- Where H cylinders are stored, electrical outlets **must be 5 feet off the ground.**
- Combustible **material and cardboard boxes cannot be stored** near oxygen cylinders. *Note:* Cylinders in carts are considered “in use”.

(SHS, 2019a)

Medical Gas Handling

Safe medical gas cylinder handling and storage:

- Transport cylinders in **pecially designed wheeled carts** or designated cylinder racks
 - Keep **safety caps on all gas cylinders** when transporting.
- Carry **“walk around” cylinders** by the handle.
- Do not obstruct access **to any medical gas** valves.

(SHS, 2019a)

Compressed Gas Handling Safety

Access the SHS Compressed Gas Handling Safety Policy from SHS **INSIDER**



SHS Insider Departments Operations Employees Service Requests Role-Based Focus Links Not following



Samaritan Opens Pharmacy on OSU Campus



Well Informed



Well Informed
Schwartz Rounds Return to GSRMC

PRIDE in safety together

24

Days Since Last Serious Safety Event.

See the Details.

RLDatix Event Reporting

EthicsPoint Compliance & Privacy

Kronos (UKG)

PeopleSoft

Performance

Policies & Procedures

Shining Star

Webmail

See all



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Medical Gas Use and Precautions

- Always identify medical gases by label, not by the color of the cylinder.
- Only designated staff can operate Medical Gas Zone shut-off valves, such as Respiratory Therapy Manager or Nursing Supervisor.
- Ensure regulators or flow meters are matched to the gas used; they are not interchangeable.
- Instruct staff, patients, and visitors to observe safe practices when oxygen is in use:
 - No open flames
 - No smoking
 - Do not drape materials over an oxygen cylinder

(SHS, 2019a)

Magnet Resonance Imaging (MRI) Safety

Rules and precautions for the MRI environment:



Do Not Enter the MRI room for any reason unless cleared by MRI staff.



The MRI **magnet is always on**; there are no second chances.



Ferrous metal brought within the magnetic field will be attracted to the magnet **before you can react**, becoming a projectile.



Check with your site's Imaging department for more information.

Not following MRI procedures can be fatal!

Specialized fire extinguishers are available for the MRI environment. **DO NOT** bring a standard fire extinguisher into an MRI room.



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(SHS, 2018)



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Knowledge Checks



Remember, everyone has a responsibility to create and maintain a safe work environment.



Site and equipment safety requires you to be alert, assess your area, use approved equipment, and to keep exits clear.



Know how to safely operate equipment before use, your role in equipment safety, and what to do if equipment fails and/or someone is injured.



Be aware of where safety policies and requirements are located for your department.



References

Occupational Safety and Health Act of 1970, 29 C.F.R. § 1910.147 (2018).

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