UNDER PRESSURE

SARAH ARROWSMITH

WHO NEEDS TRAINING?

- Do you use compressed gas?
- Do you use an instrument that is attached to a gas cylinder?
- Do you use the glove box?
- Have you been asked to take an empty cylinder downstairs?
- Then you need to complete ASU's Under Pressure Blackboard Training and Mentoring Program!



TAKE CARE OF BUSINESS

- Every member of the lab, including students, who use cylinders MUST take the online training.
- Go to: <u>https://cfo.asu.edu/ehs-training</u>
- Under Blackboard tab, choose "Compressed Gas Under Pressure"
- Complete the course.
- Have a mentor do in person training and sign the mentor form.

How do we protect ourselves when using gas cylinders?

Wear PPE: Goggles (YES), Lab coat (YES), Closed Toed Shoes (YES) and Gloves (Recommended).

Always secure tank to bench, mount, or dolly.

NEVER leave an unsecured tank unattended.



What is a regulator?

Pressure regulators are pieces of equipment that reduce the pressure leaving the cylinder to a level that can be safely used in your operating system.



What is the first thing you check before you remove a regulator?

How much gas is left! Open the valve. The first gauge will show you how much pressure is left in the tank.

CLOSE the valve all the way before removing the regulator.



How much do we tighten regulators? How do you check for leaks?

Until the nut is secure and there is no leak. You should not be able to hand loosen or move the regulator.

SNOOP at the connection between nut and tank valve opening. Methanol and Soap Solutions can be used.



My tank is empty. What do I do?

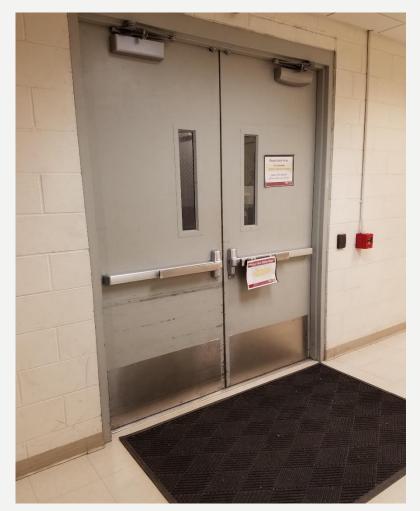
Please remove the "Full" tag, write your name, date, and the gas name. Give tag stub to Carole.

Take empty tank downstairs. Every time. Do not leave empty tanks in holding areas in your lab.

Gas Tank Receiving is open 7:30am to 4pm.

CO2 UNIDIZ XI FULL FULL REMOVESTUB WHEN EMPTY Sean 10-14-16 TBS





Receiving Area for Gas Cylinders, Basement



Holding area for full tanks!

My tank is leaking? Now what?

Snoop lines to find leak. Fix if possible, find help immediately if not.

If tank itself is compromised, call gas se 480-965-6546

Broken, screaming tank? Evacuate the area





Took training a thousand years ago but still nervous about handling tanks?

Come find me! I will help you.

"I must not fear. Fear is the mind-killer" –Frank Herbert, Dune

QUESTIONS?





Swette Center for Environmental Biotechnology