

Environmental Health and Safety Manual (EHS)

EHS 122: Compressed Gasses

Effective: 7/1/2011

Revised: 7/1/2024

Purpose

To protect all ASU employees and the community from potential hazards associated with the storage, handling, and use of compressed gasses.

To meet applicable federal, state, and local regulations.

Sources

29 Code of Federal Regulations §§ 1910 and 1926

National Fire Protection Association Standards

Arizona State University Fire Prevention and Safety Plan

Arizona State University Compressed Gas Safety Program

Applicability

All members of the ASU community including employees, volunteers, and service providers who physically transport and make connections to compressed gas systems at all ASU-owned or leased facilities.

Definitions

For the purposes of this procedure the following definitions apply.

Compressed gas

1. a gas or mixture of gasses having, in a container, an absolute pressure exceeding 40 psi at 70° F (21.1° C)
2. a gas or mixture of gasses having, in a container, an absolute pressure exceeding 104 psi at 130° F (54.4° C) regardless of the pressure at 70° F (21.1° C)
3. a liquid having a vapor pressure exceeding 40 psi at 100° F (37.8° C) as determined by ASTM D-323-72.

Note: Please also see the definitions for Gas(es) (Flammable, Toxic, and Highly Toxic) in [EHS 004](#), "Definitions."

Qualified licensed contractor

An organization licensed to conduct business in the state of Arizona that has been contracted through ASU Purchasing, completed and returned an ASU Service Provider Acknowledgment, and specializes in the installation and/or maintenance of compressed gas systems.

Policy

All members of the ASU community will comply with the [ASU Compressed Gas Safety Program](#) when physically transporting or making connections to compressed gas systems.

Responsibilities

ASU community members including faculty, staff, researchers, students and part-time employee staff, are responsible for the safety and health of their employees and co-workers and must adhere to the requirements of this program. Each department or unit is responsible for identifying personnel within that unit affected by this policy and complying with all requirements of the *ASU Compressed Gas Safety Program* and this policy.

ASU EH&S Department is responsible for compliance with this program by providing policies, programs, training, and guidelines designed to ensure that safe work practices are developed, employed, and revised as necessary.

EH&S and CPMG will monitor the installation of and use of compressed gasses to ensure compliance with applicable regulatory compliance.

Cross-Reference

For more information, see:

1. [EHS 004](#), "Definitions"
2. [EHS 103](#), "Hazard Communication Program"
3. [EHS 105](#), "Personal Protective Equipment"

and

4. [EHS 108](#), "Environmental Health and Safety Training."