

**University of Massachusetts  
Amherst**



**Confined Space  
Program**

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# **CONFINED SPACE**

## Standard Operating Guidelines

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# **CONFINED SPACE**

## Standard Operating Guidelines

### **I. Confined Space**

#### **A. Scope:**

In accordance with the University Policy on Environmental Health and Safety, this program shall provide minimum safety requirements to be followed while entering, exiting and working in confined spaces at the University of Massachusetts at Amherst and other locations to which this campus has responsibilities.

#### **B. Purpose:**

The purpose of these guidelines is to establish procedures for the health and safety of all University employees who will be working with Confined Spaces (permit and non-permit required).

1. In addition, outside contractors are responsible for complying with OSHA confined space policy. Contractors need to coordinate their own confined space procedures in accordance with the requirements of this program, as noted in division one of the contract.

#### **C. Objectives:**

This program has been developed to identify confined space, establish a required training program, implement an entry permit system, require testing for hazardous atmospheres, provide safety equipment and ventilation guidelines, for confined space entry.

1. This program will also allow for the reduction of a “permit-required confined space” to a “non-permit-required space” as long as established criteria (identified in this program) have been met.

### **II. Definitions**

#### **A. Attendant:**

The person who is assigned to and responsible for monitoring and overseeing a confined space process or operation. The attendant is also required to provide support services for the confined space activity, provided he/she does not leave the site. The attendant must be able to react

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to any situation, including an emergency, as required. *An attendant is required for all permit-required confined spaces.*

### **B. Blinding/Blanking:**

The insertion of a barrier (obstructing device) across the open end of a pipe, which enters or exits a confined space, and securing such a barrier to prevent leakage of material into the confined space.

### **C. Confined Space:**

1. An area which has the following three (3) characteristics:
  - a. is large enough and configured such that an employee can enter to perform work;
  - b. has limited or restricted means for entry or exit; and
  - c. is not designed for continuous employee occupancy.
2. *Non-permit Required Confined Space (NPRCS)* – A confined space that does not contain atmospheric hazards or any hazard capable of causing death or serious physical harm.
3. *Permit Required Confined Space (PCRS)* A confined space which has been evaluated and found to have actual or potential hazards that pose a threat to the health and safety of the workers and requires a written authorization to enter. A *Permit Required Confined Space (PCRS)* is one that has one or more of the following characteristics:
  - a. Contains or has a known potential to contain a hazardous atmosphere.
    - 1) gas
    - 2) heat
    - 3) toxic vapor
    - 4) oxygen deficiency or enrichment
  - b. Contains a material with the potential for engulfment or drowning of an entrant
    - 1) particulate matter
    - 2) liquid (including, but limited to, water)
  - c. Has internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or a floor which slopes downward and tapers to a smaller cross section.
  - d. Contains any other recognized serious safety and health hazard.

**D. Double Block and Bleed:**

A means by which a line, duct or pipe is shut down by physically closing two in-line valves on a piping system, and then opening a vent between them to release excess pressure within the closed lines.

**E. *Energy Isolating Device:*** Is any device that prevents the transmission or release of energy. For example: a circuit breaker, disconnect switch, a slide gate, a manually operated switch, a line valve, blocks and other similar devices with a visible indication of the position of the device. Push buttons, selector switches and other circuit controlling type devices are **not** energy isolating devices.

**F. Engulfment:**

The capturing and/or drowning of a person in a particulate matter or liquid.

**G. Entry:**

Whenever a person places any portion of their head, face or any portion of the body through the plane of the opening of a confined space, it is considered to be entry.

**H. Hazard Evaluation:**

The assessment of a confined space to determine the potential hazards within, existing or potential, or a combination of both.

**I. Hazardous Atmosphere:**

An atmosphere, outside or within the confined space that could pose the risk of injury or death to the occupants because of flammability, explosivity, toxicity or oxygen deficiency or enrichment.

**J. Hot Works:**

The performance of any work that could or will produce arcs, flames, heat, sparks or other sources of ignition (i.e., cutting, brazing, welding, soldering, etc.).

**K. Isolation:**

Physically disconnecting or interrupting the flow of service through a confined space. This would include *piping* for steam, water and gas, *lines* for telephone, electricity and other energy sources.

**L. Lock Out/Tag Out:**

In accordance with requirements of the OSHA Lock Out/Tag Out standard and the University Policy, lock out/tag out shall mean the placement of a lock and tag on the energy-isolating device. The energy-isolating device shall not be operated until installer of said locks or tags has removed all lock out/tag out devices.

**M. Qualified Person:**

A person who has appropriate education, training and experience to work in and around confined spaces, and is experienced and knowledgeable in the various operations of confined space work. This includes the ability to properly evaluate the hazards that may or may not be involved, and the ability to act/rectify any problem/hazard found.

**N. Toxic Atmosphere:**

An atmosphere (in or around) a confined space that contains a concentration of a substance (solid, liquid or gas) above the published or otherwise known safe levels.

**III. Identification / Recognition**

- A. All campus locations that are considered to be **permit required confined spaces (PCRS)** shall be identified as specifically as possible. Including area or room, the building and its specific address.
- B. Entry into these spaces (including, but not limited to, placing of head or face into the opening of a confined space) shall be subject to the provisions of this program.
- C. Signage shall be posted near each **permit required confined space**.

The signs shall read:



- 1. Permit Required Confined Spaces that cannot be labeled, because of adverse area or weather conditions shall be identified in this policy.

**D. Sewers shall be considered (PRCS):**

- 1. They cannot be completely isolated.

2. Because the atmosphere can suddenly change without adequate warning, placing all entrants in danger.
3. Other special considerations:
  - a) **Electrical Pits** shall be considered (PRCS), *unless* all internal hazards can be eliminated, before entry.
  - b) **Steam Pits** shall be considered (PRCS), *unless* all internal hazards can be eliminated before entry.
4. If entrance into an identified (**PRCS**) will *never* be necessary, access to the space will be prohibited. Appropriate warning signage shall be posted, or some other means to prevent access shall be provided.

#### **IV. Notifications of Entry**

- A. Prior to entry of a *confined space*, the *attendant or entrant* shall notify his/her central office of the planned entry.
  1. Notification to the central office can be accomplished via two-way radio or cellular phone.
  2. Notification to the central office shall include exact location of the space, name of the caller and estimated duration of entry.
  3. Upon completion of the work, the *attendant or entrant* shall notify the central office of completion of the work in the *confined space*.
  4. A copy of the actual permits must then be sent to the appropriate departments for record-keeping purposes. The departments are listed at the bottom of the actual permit. (See Appendix A)

#### **V. Confined Space Survey**

- A. Each confined space shall be surveyed for hazards or potential hazards within. The survey shall be done by “qualified” individuals who shall decide which spaces are to be designated Permit Required Confined Space (PCRS) or *Non-Permit Required Confined Space* (NPRCS).
- B. Hazard Identification:**

Hazards shall be identified for each confined space. The hazards shall be listed in the hazard section of Confined Space Permit (Appendix E).

  1. The identification shall include:

- a) Location (exact) of confined space
- b) Past or current uses of the confined space which may adversely effect the atmosphere of the confined space
- c) Physical characteristics
- d) Existing or potential hazards in the confined space:
  - 1) Oxygen deficiency or enrichment
  - 2) Flammable or explosive atmosphere
  - 3) Toxic Atmosphere
  - 4) Biological hazards within the confined space
  - 5) Mechanical hazards (i.e., auger, ribbon blenders, and piping hazards)

**C. Hazard Evaluations:**

Shall be performed by a qualified personnel. Each hazard (potential or known) shall be examined for:

**1. Hazard exposure**

Who and how many people would be affected?

**2. Hazard Potential**

How much energy could be released?

How toxic are the chemicals used or found in place?

**3. Hazard consequences**

What is the likelihood of injury, explosion or fire within the confined space?

**4. Hazard Conditions**

What activities or conditions could change within the confined space which might make the confined space more or less hazardous? For example:

- a) Steam
- b) Electricity
- c) PCB's
- d) Flooding/weather changes

**5. Hazard Control (Strategies for controlling hazards)**

- a) Block and Bleed
- b) Isolation
- c) Utility shutdown
- d) Ventilation

## 6. Emergency response

Which agencies might be called for this confined space?

- a) Amherst Fire
- b) Environmental Health & Safety
- c) Electric Shop
- d) Plumbing Shop
- e) Work Control

## D. Hazard Re-evaluation:

In certain circumstances (i.e., downgrading from a PRCS to NPRCS) a “hazard re-evaluation” will be performed. Depending on the work being performed within a (NPRCS) (i.e., welding/cutting) a confined space will need to be re-evaluated.

1. When the need for such re-evaluation is determined, a qualified person shall conduct the hazard evaluation and hazard identification process.
2. When evaluating or re-evaluating a confined space atmosphere, the following shall be incorporated:
  - a) All sources of ignition shall be kept to a minimum of twenty-five (25) feet away from the opening, until the space has been tested and found to be free of explosive/flammable gases.
  - b) Any manufacturer’s recommendations regarding pre-testing and calibration of air monitors to be used shall be followed.
  - c) Testing shall be done at the opening or cover first, prior to opening, if possible. If no dangerous condition is identified or detected, the cover or door can be partially opened. (*use caution to avoid sparks*).
  - d) Testing/continuous evaluation shall be performed, first just inside the opening and then into other areas of the confined space, unless a dangerous condition has been identified.
  - e) Test or monitor the permit space as necessary to determine if acceptable entry conditions are being maintained during the course of entry operations.
  - f) If any confined space is vacated for any period of time, the atmosphere of the confined space should be re-evaluated before entry is again permitted.
  - g) If isolation of the space is infeasible because the space is large or is part of a continuous system (such as a sewer), pre-entry testing shall be performed to the extent feasible before entry is authorized. If entry is

authorized, entry conditions shall be continuously monitored in the area where authorized entrants are working.

## VI. Limits

### A. Acceptable Limits (atmosphere)

After evaluation by a “qualified person,” the atmosphere of the confined space shall be considered within the acceptable limits if the following criteria are met:

1. **Oxygen** – levels are between 19.5-23.5%.
2. **Flammability** – is less than 10% of the Lower Explosive Limit.
3. **Carbon Monoxide** – is less than 35 ppm.
4. **Hydrogen Sulfide** - levels are less than 10 ppm
5. **Toxicity** – is less than the recognized exposure limits
6. **Airborne Dusts** – levels less than 10% of the Lower Explosive Level – see NFPA Handbook, 14<sup>th</sup> edition for particular dusts.

### B. Unsafe Atmosphere/Unacceptable Limits

1. *No Employee/Contractor Shall Enter Any Confined Space In Which A Hazardous Atmosphere Has Been Detected.* Whenever testing (by a qualified person) of the atmosphere indicates that levels of oxygen, flammability, or toxicity are **not** within acceptable limits, **entry shall be prohibited** until appropriate personal protective equipment, (PPE) and training has been provided.

### C. If, During Any Entry, A Hazardous Atmosphere Is Detected:

1. *All Employees Shall Leave the Confined Space IMMEDIATELY.*
2. **Then notify** the *Physical Plant Safety Officer or Environmental Health and Safety.*
3. The space shall then be evaluated by a “qualified person” to determine how the hazardous atmosphere developed. All necessary steps, including corrective action, continuous **forced** ventilation and atmospheric monitoring, shall be taken to protect employees prior to re-entry.<sup>1</sup>
  - a. If the source of the contaminant can **not** be determined, precautions shall be adequate to deal with the **worst possible condition** within the confined space.

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<sup>1</sup> All test results, before and after re-testing shall be documented to certify safe re-entry.

- b) If there is a **possibility** that the confined space could become unacceptable, while personnel are working, procedures and equipment including: Tripod, safety harness, telephones or portable radios shall be provided.

2. **Exceptions:**

- a) Negative air (already permanently installed) can be used in lieu of forced ventilation (i.e., east Experiment to C.C. Parkway Garage) provided that Contaminated Air shall not be drawn into the confined space.
  - b) Fresh air intake plenums for buildings on campus.
  - c) Air **supply** for the **forced** air ventilation shall be from a **clean source** (i.e., not in close proximity to vehicle exhaust), and shall **not** increase the hazards within the confined space.
3. When Air quality (re-testing) shows that the atmosphere remains unsafe or unacceptable for entry, the entry permit shall be revoked and entry prohibited.
- a) **The permit can be revoked by:** the attendant, supervisor, qualified personnel, Physical Plant Safety Officer or any “qualified person” within the department of Environmental Health and Safety.
4. If hazardous gases or oxygen deficiency/enrichment is **not** indicated after re-testing, the confined space may be entered. This provides that continuous atmospheric testing is conducted and that **forced** ventilation is continuous throughout the work period.

VII. **Permit Required Confined Space**

A. **PRCS (Permit Required Confined Space) Program Goals**

The Permit Required Confined Space Program shall:

- 1. Implement measures necessary to prevent unauthorized entry.
- 2. Identify and evaluate the hazards of **PRCS** before employees enter then:
- 3. Develop and implement the means, procedures, and practices for safe entry into a PRCS, including but not limited to:
  - a) Identification of acceptable entry conditions
  - b) Isolating the PRCS

- c) Eliminating or controlling atmospheric hazards by purging, blanking, locking or tagging out, flushing inerting or ventilating
  - d) Monitoring (periodically or continuously) of the PRCS as required by the qualified person.
4. Provide the required equipment (intrinsically safe, as necessary) needed for proper set-up, entry and breakdown of the confined space, such as:
- a) Ventilation equipment
  - b) Communication equipment
  - c) Testing and monitoring equipment
  - d) Personnel Protection equipment
  - e) Lighting
  - f) Barriers
  - g) Equipment
  - h) Rescue and emergency equipment
5. Evaluate PRCS prior to and during entry
6. Provide the necessary entrants/occupants, attendants and other additional support as needed.

**B. Permit Requirements:**

- 1. Prior to entry, the PRCS permit should be prepared by a “qualified person” and signed by the entrant and supervisor/project manager. In case of emergency, a “qualified person” can sign the permit.
- 2. The completed permit shall be made available to all entrants; occupants and attendants by posting near the entrance of the confined space.
- 3. The supervisor or “qualified person” has the authority to terminate the permit if conditions affecting the entry exceed the scope of the permit.
- 4. The University shall create and maintain a file for all canceled, expired or completed entry permits.

**NOTE: All the requirements of the permit shall have been met before entry is made.**

**C. Entry Permit**

The entry permit shall identify:

1. Permit Space (by address and number) to be entered
2. Purpose of entry
3. Date and completion time
4. The authorized entrants, attendants and supervisors
5. Existing hazards
6. Measures used to isolate, eliminate or reduce the hazards of the PRCS
7. Acceptable entry conditions – before and during each entry of the PRCS
8. Rescue equipment and the emergency reporting procedure
9. Communications equipment
10. Personal protective equipment
11. Other additional information

**D. University PRCSs**

**Permit Required Confined Spaces** at the University of Massachusetts at Amherst shall include, but are not limited to:

1. Sewers
2. Certain underground tunnels and pits, as identified
3. Elevator overheads and limited access pits
4. Previously identified exhaust systems/HVAC equipment accessed for maintenance
5. Sump pump pits
6. The 10 pits in Lederle Grad Research Center (high-rise and low-rise)
7. Campus Center Garage exhaust fans

8. Underground water stream from Visitor's Center to Lot 25, by Mullins
9. Polymer Penthouse HVAC and sump pump pits
10. Tanks that personnel can enter for cleaning and maintenance

**VIII. RESPONSIBILITIES**

**A. *Authorized entrants shall:***

1. know the hazards that may be faced during *entry*, including information on the mode, signs of symptoms, and consequences of exposure to the hazards;
2. know how to use equipment properly;
3. communicate with the *attendant* as necessary to enable the *attendant* to monitor *the entrant(s)*' status, and enable the *attendant* to alert *entrant(s)* of the need to evacuate the space
4. alert the *attendant* whenever:
  - a) the *entrant* recognizes any warning sign or symptom of exposure to a dangerous situation;
  - b) detects a *prohibited condition*
5. exit the *permit* space as quickly as possible whenever:
  - a) the order is given by the *attendant* or *entry supervisor*;
  - b) the *entrant* detects a *prohibited condition*;
  - c) an evacuation alarm is activated.
6. make sure that the "qualified person" has evaluated/inspected the *confined space*, and that it was determined to safe for *entry*.
7. Make sure, before *entry*, that all potential hazards have been identified and that serious hazards have been *isolated*.
8. Make sure, before *entry*, that all appropriate rescue equipment has been made available at the site. Whenever a worker is required to enter a PRCS:

- a) he/she is required to don a full body harness and an attached retrieval line, secured outside the *confined space* unless the retrieval equipment would increase the overall risk or would not contribute to the rescue of the victim. Retrieval lines shall be attached to approved mechanical holster equipment.
  9. The *entrant/attendant/qualified person* shall make sure that the appropriate ventilation equipment and tubing have been positioned properly to provide continuous, clean air to the work area, if required.
  10. Make sure they have the necessary communication equipment for the type of work being performed.
  11. Be familiar with the use and warnings of all monitoring equipment.
- B. Authorized *attendants* shall:
1. know the hazards that may be faced during *entry*, including information on the mode, signs or symptoms, and consequences of the exposure;
  2. be aware of the possible behavioral effects of hazard exposure in *authorized entrants*;
  3. assist the *entrants* entering the space, but shall not themselves, at any point, enter the *confined spaces*;
  4. remain outside the *permit's* space during *entry* operation until relieved by another *attendant*;
  5. continuously maintain an accurate count of *authorized entrants* in the *permit* space and ensure that the *permit* accurately identifies who is in the *permit* space.
  6. Communicate with *authorized entrant(s)* as necessary to monitor *entrant* status and to alert *entrant(s)* of the need to evacuate the space;
  7. Verify that the means to summon rescue services is operable.
    - a) a radio check with the Central Office during normal working hours, or:
    - b) during *off-hours*, a call with a cell phone to Bell Atlantic Customer Service at **611**, “**send**” will connect you to a person free of charge for a “radio check.” (The 611 number will first access an electronic menu system, but following the cues from the menu, you will get a person with who may check phone clarity.)

8. Monitor activities inside and outside the space to determine if it is safe for *entrants* to remain in the space and order the *authorized entrants* to evacuate the *permit* space immediately under the following conditions:
  - a) If the *attendant* detects a prohibited condition;
  - b) If the *attendant* detects the behavioral effects of hazard exposure in an *authorized entrant*;
  - c) If the *attendant* detects a situation outside the space that could endanger the *authorized entrant*; and
  - d) If the *attendant* cannot effectively and safely perform all their duties.
9. Summon rescue and other emergency services as soon as the *attendant* determines that *authorized entrants* may need assistance to escape from the space.
10. Takes the following actions when unauthorized persons approach or enter a *permit* space while *entry* is under way.
  - a) Warn the unauthorized persons that they must stay away from the permit space;
  - c) Advise the unauthorized persons that they must exit immediately if they have entered the *permit* space; and,
  - d) Informed the *authorized entrants* and the *attendant's* primary duty to monitor and protect the *authorized entrant(s)*:
11. *Entry Supervisor* shall:
  - a) Ensure that the necessary equipment has been made available and placed on site before work has begun.
  - b) Ensure that each *confined space* to be entered shall have been properly assessed by a *qualified person* before *entry* is permitted. If the *qualified person* finds the *confined space* unacceptable, the *Entry Supervisor* shall make sure that no one enters the *confined space* until corrective measures have been made, and the *qualified person* has then permitted *entry*.
  - c) Ensure that the *attendants* and *entrants* have monitoring equipment in the *confined space* at all times when necessary, and that the *attendants* and *entrants* know what to do in case of alarm(s).

- d) Ensure that the appropriate two-way communication equipment is made available to the *attendant/entrants*. The *attendant* shall be equipped with communication equipment in case of emergency. The Central Office and Physical Plant Safety Officer shall be made aware of any *confined space* work, so that they are prepared to specifically listen for emergency requests.
- e) Know the hazards that may be faced during *entry*, including information on the mode, signs or symptoms, and consequences of the exposure.
- f) Verify, by checking that the appropriate entries have been conducted and that all procedures and equipment specified by the *permit* and allowing *entry* to begin.
- g) Verify that rescue services are available and that the means of summoning them are operable.
- h) Remove unauthorized individuals who enter or who attempt to enter the *permit* space during *entry* operations.
- i) determine, whenever responsibility for a *permit* space *entry* operation is transferred, that *entry* operations remain consistent with terms of the *entry permit* and that acceptable *entry* conditions are maintained.

12. Physical Plant Safety Officer or Campus Safety Officer shall:

- a) Assist *qualified persons* with questions regarding Confined Space Safety or safety procedures related to *confined space* entry.
- b) When notified, respond to the work site whenever a *hazardous atmosphere* or condition is encountered in any *confined space* and assist in identification and/or mitigation of the hazard;

13. Central Office Personnel shall:

- a) serve as communication link between the *confined space attendant* and emergency response services during normal working hours.

## **IX. EMERGENCY RESPONSE**

**Caution: A confined *space attendant* shall not enter the *confined space* for rescue, unless he/she is qualified for such rescue and a *qualified attendant* is present to take his/her place.**

- A. As soon as the *attendant* determines that the entrants may need assistance to escape from the *permit space* hazards, the *attendant* shall do the following in the order given:
  - 1. Immediately summon rescue services by calling the central office via radio, or by calling Emergency Services at **911** by cell phone, and identifying the site as accurately as possible.
  - 2. If possible, attempt a non-entry rescue while rescue/emergency services are en route.
    - a) Using lifeline/mechanical retrieval device(s), extricate the *entrant(s)* using care to prevent injury or entanglement of the *entrants* or lifeline within the space.
    - b) If extrication is successful, begin first aid (if trained) as required until relieved by rescuers.
  - 3. Upon their arrival, inform rescuers of any known hazards within the space and make available any material safety data sheets pertinent to the rescue.

## **X. CONTRACTORS**

- A. Outside contractors are responsible for complying with OSHA confined space regulations and must have their own confined space program that meets or exceeds the OSHA requirements.
- B. When a contractor is hired to perform work *in permit-required confined spaces*, the University department administrating the contract shall notify the contractors of the following:
  - 1. The campus contains *permit-required confined spaces* and that *permit-required confined space entry* is allowable only through compliance with a program that, as a minimum, complies with 29CFR1910.146 – OSHA’s Permit Required Confined Space regulations;
  - 2. The elements, including the hazards identified and the department’s experience with the space, that make the space in question a *permit-required confined space*;

3. Any precautions or procedures that the department has implemented for the protection of employees in or near *permit-required confined spaces* where contractor personnel will be working.
  4. Emergency reporting procedures on campus. 545-2121 reaches UMass Police, 9-1-1 on cellular phones reach Northampton State Police and will be transferred to Amherst Dispatchers, 9-1-1 on campus telephones will reach UMass Police.
- C. University personnel shall coordinate *entry* operations with the contractor, when both University and contractor personnel will be working in or near *permit-required confined spaces*, as required by the standard;
- D. The University department responsible for administering the contract shall debrief the contractor at the conclusion of the *entry* operations followed and regarding any hazards confronted or created in the *permit-required confined spaces* during *entry* operations.
- E. Each contractor who performs *permit-required confined space entry* operations shall ensure they:
1. obtain any available information regarding *permit-required confined space* hazards and *entry* operations from the University department responsible for the space;
  2. co-ordinate *entry* operations with University personnel, when both University personnel and contractor personnel will be working in or near *permit-required confined spaces*;
  3. inform the University personnel responsible for administering the contract of any hazards confronted or created in *permit-required confined spaces*, either through a debriefing or during the *entry* operation.
- F. The Campus Safety Officer shall be made aware of any safety issues or information regarding newly discovered hazards in campus confined spaces that are revealed during contractor debriefings by University personnel.
- G. All areas meeting the definition of a *confined space* shall be considered as *permit required* until such time as it can be demonstrated that it can be reclassified as *non-permit required*.
- H. *Hazard evaluations* and reclassifications of *permit required confined spaces* to *non-permit confined spaces* shall be performed by a technically *qualified person*.

## **XI. HAZARD EVALUATION**

- A. All areas meeting the definition of a *confined space* shall be considered as *permit required* until such time as it can be demonstrated that it can be reclassified as *non-permit required*.
- B. *Hazard evaluations* and reclassifications of *permit required confined spaces* to *non-permit confined spaces* shall be performed by a technically *qualified person*.

## **XII. TRAINING**

- A. Any employee who is required to enter or supervise those entering or serve as an attendant for any entry into a confined space shall receive appropriate training. This training will assure that understanding, knowledge and skills necessary for safe performance of duties are acquired.
- B. Initial training will be given to all affected employees and will be followed up with refresher training. Training will be conducted as necessary on any new procedures before there is a change in assigned duties. When there is a change in confined space hazards, or when deficiencies become evident.
- C. The Office of Environmental Health & Safety shall maintain certification records of all employees trained and tested in confined space entry and operations. The list will include the subjects, signature(s) of the trainer(s), attendees and dates of training.