

## Who should attend:

Industrial facility employees who work in and around confined spaces

Fire Department personnel who have the potential to respond to emergencies in a confined space

Other first responders who have the potential to respond to emergencies in a confined space

There are NO pre-requisites for this class.

## Students will:

Become aware of the hazards of confined spaces, allowing them to keep themselves and coworkers safe.

Grasp why air monitoring is needed, and how to monitor.

Be qualified to be a confined space entry supervisor, attendant, or entrant and be part of a rescue team.

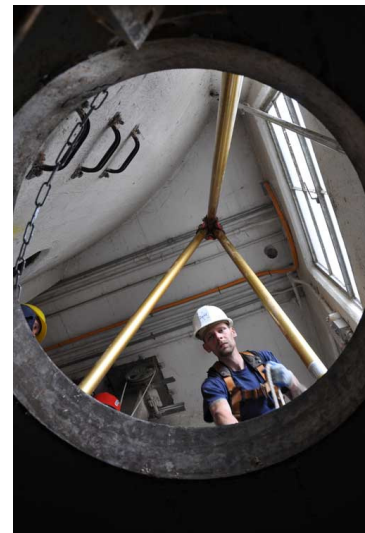
Be able to retrieve an incapacitated worker from a confined space.

Actively participate as part of a confined space entry team performing the roles of Supervisor, Attendant and Entrant

## Class Length & Structure

8 hours of training time (scheduled over a 9 hour period)

- 4 hrs. Interactive Classroom Presentation and hands on activities
- 1 hr. Lunch Break
- 4 hrs. Hands-on Exercises (students are divided into groups and rotate between stations)



## Standards This Class Meets

### OSHA:

1910.146

Confined Space Standard

1910.147

Lock out, Tag out Standard

1910.38

Emergency Action Plans

### NFPA:

1670

Rescue Teams

1006

Technical Rescuer  
Qualifications

### ANSI:

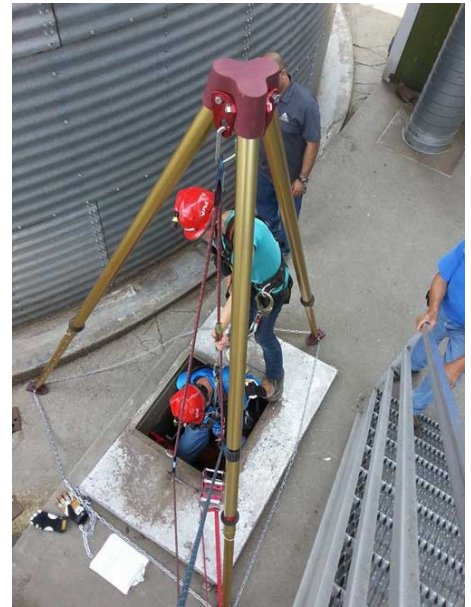
Z359

Fall Protection Code

## Topics Covered

Classroom materials are presented through lecture, Power Point presentation and hands on activities. A strong emphasis is placed on safe work practices.

- Confined space entry procedures
- OSHA regulations relating to confined spaces
- Lock out, tag out procedures
- The need for rescue services when making confined space entry
- Detecting and mitigation atmospheric hazards
- Training requirements
- Air monitoring
- Communications during entries
- Equipment needed for entry and retrieval
- Fall protection, fall prevention and the difference between them
- Harnesses and their use and care
- Assembly and use of a bin entry life line
- Roles of a confined space Entrant
- Roles of a confined space Attendant
- Concepts of confined space rescue
- Grain engulfment rescue
- Patient handling



## Hands-On Exercises

These exercises put into play all the safety practices taught during the classroom session. They are designed to be as real life as possible. Use of confined spaces on your site gives the students a sense of actual conditions and challenges they could encounter.

### Harness Inspection, Fit & Seat Time

Students will learn and practice how to inspect of their harnesses, documentation of annual harness inspection, and how to properly adjust and fit a harness.

They will have the opportunity to try on and hang in a variety of different harness (provided by SATRA).

They will also practice basic knot tying - figure eight, figure eight on a bite, butterfly knot, and use of a prussic.

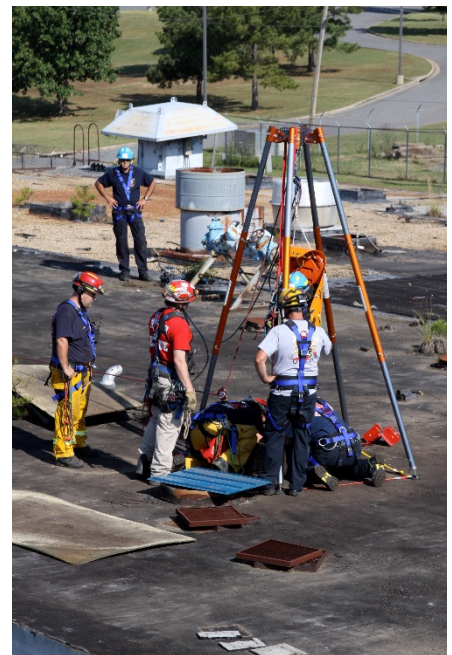
### Retrieval Of A Worker From A Below Grade Confined Space

This scenario utilizes a below grade confined space at your facility.

Students fill the roles of an incapacity worker in a below grade confined space, and a rescue team.

The rescue team practices the retrieve the incapacitated worker from the space

The scenario is repeated several time with other participants filling the roles of victim and rescuers.





## Confined space entry / rescue scenarios

These exercises use a variety of confined space at your facility.

Students fill the roles of a confined space entry team: Supervisor, Attendant, Entrant, and victim.

They practice the use of proper equipment, complete an entry permit, monitor the space for hazards, make entry and rescue an incapacitated worker.

The scenario is repeated several times utilizing various spaces to add a degree of complexity and technical difficulty with each evolution.

Components taught during hands-on exercises:

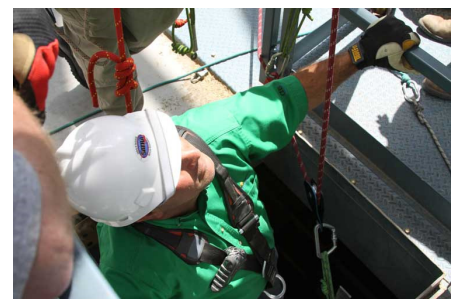
- Harness use & inspection
- Tripod rigging
- Raising and lowering of entrants
- Atmospheric monitoring
- Hazard recognition
- Lock out, tag out
- Communications
- Patient handling



## Certification

Upon successful completion of this course students receive certification.

**Annual recertification is required.**



## Equipment / Supplies Needed

**DO NOT purchase new equipment in preparation for training.**

Information provided during training will allow you to make informed purchasing decisions, get hands-on time with the products you are considering, and get the most from your equipment budget.

### Students:

- Any protective clothing or equipment that is normally required by the facility being used for hands-on exercises.
- If the facility does not dictate protective equipment, we suggest clothing that covers your legs and work boots. Unless dictated by the facility work boots do not need to be steel reinforced.
- Flashlight- suggested
- Hard hat- suggested
- Gloves- suggested
- Students are encourage to bring their harnesses for evaluation for fit form and function.

*NOTE: Firefighters participating in this training DO NOT need their turn out gear.*

### Facility:

- Classroom space & seating for students. Classroom areas that have electrical power, projector and screen available are preferred, but not necessary.
- Access to a facility with various confined space area to be used for hands on exercises.

*Suggested locations: water treatment plants, commercial facility, industrial machine or equipment space*

### SATRA Provides:

- All classroom materials
- All ropes, harnesses and ancillary equipment for hands-on exercises.
- An appropriate number of instructors to ensure safe practices during the live simulation.



To learn more or  
schedule a class  
call (313) 415-4658  
email [bharp@satra.us](mailto:bharp@satra.us)