



Hazards of Flowing Grain & Confined Space Entry / Rescue Course Overview

www.satrapros.com

(313) 415-4658

Who should attend:

Commercial agriculture employees who work around flowing grain.

Commercial agriculture personnel who could potentially render aid to a person trapped in a grain engulfment.

Fire Department personnel who have the potential to respond to emergencies in a grain facility.

Other first responders who have the potential to respond to emergencies in a grain facility.

In this class a strong emphasis is placed on entrapment prevention and safe work practices.

There are NO pre-requisites for this class.

Students will:

Become aware of the hazards of flowing grain and confined spaces, allowing them to work safer and prevent grain entrapment.

Meet the OSHA training requirements for OSHA 1910.272 (Grain Handling Standard), qualifying them to work around flowing grain.

Be qualified to make bin entries, be a bin entry attendant and be part of a rescue team.

Be able to retrieve an incapacitated worker from a confined space without making a confined space entry.

Actively participate in a live engulfment / rescue scenario in a controlled environment.

Actively participate as part of a grain bin entry team and practice the non-entry rescue of an incapacitated worker.



Standards This Class Meets

OSHA:

1910.272 Grain Handling Standard

1910.146 Confined Space Standard

1910.147 Lock out, Tag out Standard

1910.38 Emergency Action Plans

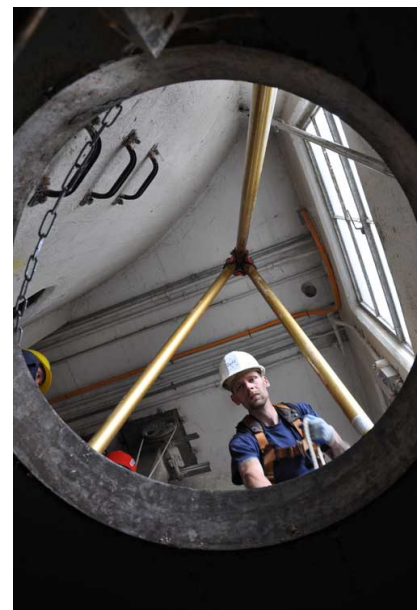
NFPA:

1670 Rescue Teams

1006 Technical Rescuer Qualifications

ANSI:

Z359 Fall Protection Code



Class Length & Structure

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

4 hrs. Interactive Classroom Presentation with Hands-on Exercises

1 hr. Lunch Break

4 hrs. Hands-on Exercises (students are divided into groups and rotate between stations)

Topics Covered

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

- Confined space and safe bin entry procedures
- OSHA regulations relating to confined spaces and bin entry
- Lock out, tag out procedures
- The need for rescue services when making confined space entry
- Detecting and mitigation atmospheric hazards
- Grain dust explosion considerations
- Entrapment 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 bin Entrant
- Roles of a bin Attendant
- Concepts of bin rescue
- Grain engulfment rescue
- Use of coffer dams
- Safe bin cutting
- Auger entanglement
- 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.

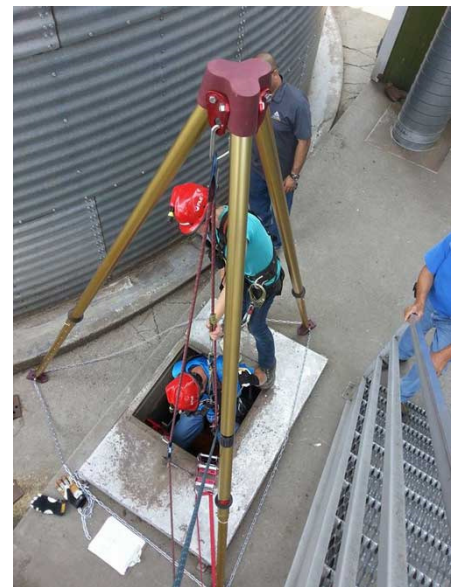
Retrieval Of A Worker From A Below Grade Confined Space (Boot Pit)

This scenario utilizes a below grade confined space at your facility, typically a boot pit.

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 without entering the confined space. This station assumes that the incapacitated worker followed safe entry procedures and was wearing a harness and lifeline when entering the space.

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



Live Grain Engulfment / Rescue Simulation

Live engulfment training is done in a controlled environment. (SATRA's engulfment simulator)

This exercise is designed to be as real life as possible and utilizes all safe bin entry practices taught during the classroom session.

Students, play the roles of a bin entrant and attendant. The entrant, wearing a harness and lifeline, enters the simulator. The entrant becomes the victim of a grain engulfment. A three student rescue team works together to free the victim from the entrapment using a Res-Q Tube.

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

Every attendee has the opportunity to experience what it feels like to be the victim of a grain entrapment and act as a rescuer. This experience drives the point home that grain entrapments present a true danger and that entrapment prevention is essential.

Confined Space/Grain Bin Entry

This exercise uses a confined space at your facility.

Students fill the roles of a confined space entry team / rescue team.

They practice the use of proper equipment, complete an entry permit, monitor the space for hazards, and make entry. They then make a non-entry retrieval of an incapacitated worker.

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



Certification

Upon successful completion of this course students receive certification.

Grain Handling Industry Employees:

Annual recertification is required.

Emergency Responders:

Certification requirements are up to the authority having jurisdiction. We recommend recertifying every 2 years.





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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 legs and boots or tennis shoes for participation in hands-on exercises.

Students are encourage to bring their harnesses for evaluation for fit form and function.

Facility:

200 bushels of grain which is returned when training is completed.

Grain does not need to be available at the training site. SATRA can pick it up and return it to a nearby location.

Classroom space & seating for students. Classroom areas that have electrical power, projector and screen available are preferred, but not necessary.

Suggested locations: church, community center, fire department apparatus bay, high school auditorium.

Access to a facility with various confined space area to be used for hands on exercises.

SATRA Provides:

All personal protective equipment (helmets, safety goggles, gloves)

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

All ropes, harnesses and ancillary equipment for hands-on exercises.

Coffer dams (a variety of different types).

Specially designed engulfment simulator.

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