



**SAFETY AND
RESCUE TRAINING
FOR HIGH-HAZARD
ENVIRONMENTS**



SAFETY TRAINING

Confined Space
Fall Protection
Excavation/Trench
Forklift/Telehandler



RESCUE TRAINING

Confined Space Rescue
Tower Rescue
Surface Mine Rescue
Excavation/Trench Rescue

FALL PROTECTION

Levels of Fall Protection Training

Authorized User: Can inspect and use fall protection equipment and follow the requirements of the fall protection plan. Training is usually provided by the competent person/trainer before exposure to fall hazards. No retraining requirement unless there is a change in hazard, equipment, or observed deficiency. *Best Practice:* Refresher training every 2 years.

Competent Person: Can identify fall hazards and take corrective action. Can perform formal inspections of fall protection equipment which are required by manufacturers. Can assess adequacy of non-certified anchors per ANSI. No retraining requirement unless deficiency noted or change in hazard/procedure. *Best practice:* Refresher training every 2-3 years.

Competent persons who can assess the learning needs of the students and adapt the curricula to

Authorized User

Available for Closed Enrollment

Duration: 4-8 hours depending on class size, student experience, and type of fall protection equipment to be used.

- Fall Basics
- Physics of a Fall
- Types of Fall Protection (Restraint, Positioning, Arrest)
- Other Challenges (Ladders, Openings)
- Equipment Inspection

Competent Person

Available for Open/Closed Enrollment

Duration: 16 hours.

Prerequisites: Basic safety knowledge.

- Physics of a Fall
- Types of Fall Protection
- Walking-Working Surfaces
- Formal Equipment Inspection
- Hierarchy of Controls
- Developing Fall Protection Plans

Train the Trainer

Available for Closed Enrollment

Duration: 8 hours.

Prerequisites: Competent Person training.

- Adult Learning Fundamentals
- Training Objectives
- Classroom Learning Activities
- Hands-on Learning Activities
- Skills Assessments

For information on Fall Protection Rescue please see Pg. 6.

CONFINED SPACE



Levels of Confined Space Training

Awareness: Ensures that workers do not enter confined spaces without authorization. Generally provided by the employer during orientation training. No retraining requirement.

Entrant/Attendant:

Ensures workers can fulfill responsibilities according to OSHA regulations. Provided before assigning duties. No retraining requirement unless deficiency noted or change in hazard/procedure/program.

Best practice: Retrain every 2-3 years.

Entry Supervisor:

Ensure confined spaces are safe to enter. Requires understanding of hazards and hazard-control procedures. No retraining requirement unless deficiency noted or change in hazard/procedure. *Best practice:*

Entrant/Attendant

Available for Closed Enrollment

Duration: 4-8 hours depending on class size and experience.

- Identifying Confined Spaces
- Accidents and Near Misses
- Roles and Responsibilities
- Permits
- Atmospheric Hazards
- Physical Hazards
- Air Testing, Isolation and Ventilation
- Fall Protection and Retrieval
- Emergencies

Entry Supervisor

Available for Closed Enrollment

Duration: 4 hours depending on class size and experience.

Prerequisites: Entrant/Attendant

- Entry Supervisor Defined
- Responsibilities
- Permit System
- Overseeing Entry
- Contractors
- *Case Study:* Analysis of a permit space and work activities. Identification of hazards and development of entry procedures.

Train the Trainer

Available for Open/Closed Enrollment

Duration: 16 hours.

Prerequisites: Basic understanding of employer's lockout/tagout, fall protection, confined space, and similar safety procedures.

- Confined Space Basics
- Training Entrants and Attendants.
- Training Entry Supervisors.
- Regulations, Compliance Directive, Letters of Interpretation.
- Adult Learning Principals



For a Quote:
Call us at



800.551.8763

For information on Confined Space Rescue please see Pg. 5.

EXCAVATION

Levels of Excavation Safety Training

Competent Person Basic Skills (1 day)

*Available for
Closed Enrollment*

This course provides students with the skills to serve as a competent person for a typical excavation or trenching project. In these situations the excavation is rarely over eight feet deep and no severe environmental conditions are anticipated. *Best practice:* Retrain every 3 years.

Competent Person (2 days)

*Available for Open/
Closed Enrollment*

This course goes into greater detail and provides the students with a better understanding of non-typical trenching situations as described in letters of interpretation and other resources. It also devotes more time to emergency

**To Register or
Request a Quote:
Call us or go online.**

▶ www.d2000safety.com



FORKLIFTS / TELEHANDLERS

Levels of Forklift and Telehandler Training

Operator*

*Available for
Closed Enrollment*

Users must be trained and certified for each type of equipment they operate. In addition to completing the lecture and quiz portion of the class, they must demonstrate their driving and material handling skills. Retraining is required when there is an observed deficiency, near miss or accident, change in equipment type, change in the forklift policies, or other similar situation. Operators must perform a skills demonstration/evaluation every three years. *Best practice:* Retrain every 3 years.

Train the Trainer

*Available for Open/
Closed Enrollment*

The trainer must be an experienced forklift/telehandler operator who is familiar with the operating, inspection and maintenance procedures of all the various types of equipment at that location. This person also ensures proper administration of location's forklift policies and procedures. Provides initial and refresher training as needed. No formal retraining

** Operator classes are not offered as open enrollment classes because these classes must reflect site-specific information.*



Confined Space Rescue - Pg. 5
Low Angle, Operations, Team Leader

Tower Rescue - Pg. 6
Towers/Wind Turbines, Fall Protection,
Structural Steel

CONFINED SPACE

Levels of Confined Space Rescue Capabilities

Low Angle Rescue- Rescuers size up and control or eliminate all hazards. This is gener-

Retrieval: ally in response to a medical emergency. Low angle rope systems (i.e., patient/rescuer is not suspended by ropes) are used.

Operations: Rescuers can size up a rescue scene, establish a command structure, and enter a non-IDLH space that may present other hazards. Rope systems are used to raise/lower rescuers and the patient.

Team Leader: Once a team has completed initial training and is equipped, the Team Leader oversees refresher training, team administration, development of pre-plans, along with any initial training of new team members.



Low Angle Rescue-Retrieval

Available for Closed Enrollment

Duration: 4-8 hours depending on class size, experience, and the nature of the spaces.

Prerequisites: Entrant/attendant training.

- Basic Rescue Process
- Low-angle Operations
- Pre-plans
- Size-up
- Entry and Patient Packaging
- Debrief and Continuous Improvement

Operations

Available for Closed Enrollment

Duration: 3 days depending on class size and experience.

Prerequisites: Entrant/attendant and fall protection training.

- Entry Rescue Basic Process
- Safety and Response to Stress
- Incident Command Systems
- Size-up
- Mainlines and Belays
- Equipment and Knots
- Confined Space Operations

Team Leader

Available for Closed Enrollment

Duration: 2 days depending on class size and experience.

Prerequisites: Operations-level training, extensive background in industrial safety and classroom presentation/leadership skills.

- Rescue Operations Curricula
- Team Administration
- Designing Rescue Drills and Simulations
- Teach backs

TOWER RESCUE

Types of Tower Rescue Operations

- Towers and Wind Turbines:** These structures include lattice and monopole cell and telecommunication towers, radio antennas, wind turbines, and water towers. Rescue techniques must often be accomplished with small (2-3 person teams) with limited or no outside support. Annual retraining is required. *Best Practice:* Quarterly drills with annual refresher.
- Fall Protection:** Fall Protection Rescue Retrieval training teaches students how to retrieve workers who have fallen from elevated work locations and are suspended from personal fall arrest systems. The ability to rescue workers who have fallen is a requirement of OSHA regulations governing fall protection.
- Structural Steel:** Rescue techniques are adapted to the structural steel environment. Examples include bridges, conveyors, cranes, trusses, and stage rigging. Annual retraining is required. *Best Practice:* Quarterly drills with annual refresher.



Towers and Wind Turbines

Available for Closed Enrollment

Duration: 2-3 days depending on class size, experience, and the types of structures being accessed.

Prerequisites: Fall protection user training.

- Fall Protection Review
- Tower Types and Construction
- Mainlines and Belays
- Tower Assisted Rescue Techniques
- Equipment Selection, Inspection, and Use
- Pre-plans and Emergency Planning

Fall Protection

Available for Closed Enrollment

Duration: 1-2 days depending on class size, experience, and the types of structures being accessed.

Prerequisites: Fall protection user training.

- Fall Protection Review
- Risk and Hazard Assessments
- Teams and Team Roles
- Rope Systems - Software & Hardware
- Mainlines and Belays
- Patient Care

Structural Steel

Available for Closed Enrollment

Duration: 2-3 days depending on class size, experience, and the types of structures being accessed.

Prerequisites: Fall protection user training.

- Fall Protection Review
- Lattice Structures and Construction
- Mainlines and Belays
- Tower Assisted Rescue Techniques
- Equipment Selection, Inspection, and Use
- Pre-plans and Emergency Planning



For a Quote:
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800.551.8763

SURFACE MINE RESCUE



The purpose of this five-day* course is to meet the requirements for a surface mine search and rescue team. Teams capable of providing rescue services at these locations must be able to access and remove patients from a variety of hazardous settings including confined spaces, elevated areas, haul trucks, and dumps.

This program develops the technical and safety skills required by surface mine rescue teams. This includes initiating an emergency response, establishing a command structure, sizing-up hazards, ensuring the team safety, and accessing/transporting the patient. Teams should undertake some level of refresher training at least quarterly. Formal refresher training should be provided annually.

**The scope, length, and content of this training may vary based upon site-specific conditions, including the student's current skill levels. Students attending this class must have previously completed confined space and fall protection safety training.*

High Angle | Confined Space | Dumps/Steep Angle

Due to the site-specific nature of mine hazards, this class can only be taught at the client's location.

**For a Quote:
Call us at**

800-551-8763

TRENCH RESCUE



Levels of Trench Rescue Capabilities

Awareness

*Available for
Closed Enrollment*

Team understands basic safety requirements for trench and excavation safety. Team members can identify the hazards and list each step of the rescue process. Team members can act in a supporting role in the incident command system. No re-training requirement.

Duration: 2-4 hours depending on class size and experience.

Prerequisites: Excavation Safety Competent Person training.

Operations

*Available for
Closed Enrollment*

Team is trained to size-up and control hazards associated with emergencies in non-intersecting trenches up to eight to ten feet deep. Team can use both engineered protective systems and traditional shoring. Team can create safe zones, access the patient and lift the patient to a place of safety. Should be re-trained every year with quarterly drills.

Duration: 3 days depending on class size and experience.

Prerequisites: Excavation Safety Competent Person training.

Technician

*Available for
Closed Enrollment*

Team is trained to shore intersecting, "L", and "T" trenches greater than eight to ten feet deep. Team can enter excavations with hazardous atmospheres or substantial water intrusion. Should be re-trained every year with quarterly drills.

Duration: 5 days depending on class size and experience.

Prerequisites: Excavation Safety Competent Person training.



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Why D2000 Safety?

- ▶ Our dedicated staff has decades of experience providing training and consultation in high-hazard work environments. Our adherence to ANSI criteria ensure a high-quality student experience.
- ▶ We have worked extensively in diverse and complex industrial environments such as hydro dams, gas and oil refineries, power plants, water and wastewater treatment plants, wind turbines, food processing plants, and many other industries.
- ▶ Our numerous train the trainer programs allow our clients to deliver effective training internally. Updated curricula and extensive class resources are available through the *Authorized Curriculum Provider* program.

D2000 Safety | Key Facts

- ▶ Founded in 1993, we provide training for workers in high-hazard environments throughout the U.S.
- ▶ Our programs are tailored to reflect regulatory requirements (e.g., OSHA, NFPA, ANSI, EM-385-1-1, DOD, DOE) as applicable.
- ▶ All curricula design and delivery reflect ANSI/ASSE Z490.1 *Criteria for Accepted Practices in Safety, Health and Environmental Training*

