



Safety and Rescue Training
for high-hazard work activities

**Confined Space
Surface Mines
Excavation
Tower**

Trench Rescue > Technician

This five-day course follows NFPA guidelines for Technician-level training. This level of training would be appropriate for a fire department's technical rescue team. Teams operating at this level are capable of:

- Displaying all the skills of an operations-level trench rescue team.
- Responding to the collapse of a trench, or intersecting trenches, deeper than eight feet or those in extreme environmental conditions.
- Building, installing and removing all types of supplemental shoring following tabulated data and engineering practices.
- Properly using all other types of manufactured protective systems.

Prerequisites: Before taking this class students need to have completed Excavation Safety Competent Person training. Specifically they must be able to apply tabulated data when using engineered cave-in protection systems, calculate lateral earth pressure, identify trench collapse patterns, and identify/manage hazards posed by water and hazardous atmospheres.

Course Outline

Course Overview

- Regulatory Review

Trench Rescue Process

- ICS and Size-up
- Pre-Rescue, Rescue and Termination

Rescue Protective Systems

- Shoring and Shields
- Traditional Shoring
- Timber Shoring
- Shoring X, L, and T trenches

Lifting and Moving

- Air Bags
- Cribbing

NFPA 1006 Skill Performance Checklist and NFPA 1670 Standards

Course Objectives

Upon successful completion of this course the participants will be able to:

1. Identify resources needed for trench rescue incidents.
2. Construct and remove protective systems in "X", "T", and "L" trenches.
3. Construct and remove protective systems in trenches over eight-feet deep.
4. Operate in hazardous atmospheres using appropriate protective equipment and/or initiate hazardous atmosphere controls.
5. Adjust protective systems based on changing site conditions.
6. Demonstrate the personal skills listed in NFPA requirements for technician-level trench rescue teams.

