

Trenching and Excavating Safely

Course Description

This online course will provide valuable information on the key safety aspects of trenching and excavation.

It starts by presenting statistics which show that trenching and excavation are among the most hazardous operations in the construction and civil engineering industries.

OSHA safety standards are discussed and we examine the vital role of the "competent person" in trenching safety.

We'll look at soil classification and the importance of pre-test inspections, along with soil testing.

You'll learn about how trenches and excavations should be configured when dealing with layered soils.

We'll also show how to detect underground utilities and the various types of equipment and technologies available.

The importance of daily excavation and trench inspections will be highlighted, along with advice on how to spot warning signs of instability.

You'll learn how to choose the most effective protective system for your trench or excavation.

We'll provide detailed illustrated information on sloping, benching and shoring and describe the approved configurations that can be used with different soil types.

There will be practical advice on how to prevent trench and excavation cave-ins, and what to do if there is an emergency.

Finally, we'll explain workers' rights and describe the assistance services and programs provided by OSHA.

Learning Objectives

By the end of this course, you will be able to:

- Recognise the hazardous aspects of trenching and excavation and precautions that need to be taken.
- Implement OSHA safety standards.
- Explain the importance of the 'Competent Person' on the site.
- Understand the pre-test inspections required and how to detect utilities in the excavation area.
- Explain and understand the importance of daily inspections.

Target Audience

This course is aimed at anyone working in the construction and utilities industries that may need to work in or near to trenches and excavations.

Advantages

Online training is flexible, efficient and cost effective meaning the candidate can progress through the modules at their own pace and in their own time, so they can fit the training around their work and personal life.

Modules

Course	Module Number	Module Name	Pass % Required
Trenching and Excavating Safely	1	Introduction	70
Trenching and Excavating Safely	2	Soil Classification and Pre-test Visual Inspections	70
Trenching and Excavating Safely	3	Manual Soil Tests	70
Trenching and Excavating Safely	4	Detecting Utilities and Using Equipment	70
Trenching and Excavating Safely	5	The Dangers of Trenching and Excavation Work	70
Trenching and Excavating Safely	6	Sloping and Benching	70
Trenching and Excavating Safely	7	Shoring Systems	70
Trenching and Excavating Safely	8	Support Systems and Dealing with Emergencies	70

Recommended System Requirements

- Browser: Up to date web browser
- Video: Up to date video drivers
- Memory: 1Gb+ RAM
- Download Speed: Broadband (3Mb+)

Duration: 85 minutes (*Note: This is based on the amount of video content shown and is rounded off. It does not account in any way for loading time or thinking time on the questions.*)