

# Familiarization of Buried Outside Plant Construction for Telecommunications



## Course Description

This High-Level Overview course covers the basic overall knowledge, safety and skills required to understand Buried (OSP) Outside Plant Construction in Telecommunications today.

Terminologies, standards, and safety will be covered, and the types of equipment used to construct these facilities. If time allotted and access to equipment is available, students will be able to see and or demonstrate some of this equipment and how it is used in the field. Equipment manufactures will also be providing additional training on your specific equipment.

This course is to familiarize you with the overall picture of Buried (OSP) Outside Plant Construction for Telecommunications today.

No licensing, legislative, regulatory or certification requirements apply to this course but should be reviewed by your local state laws and regulations that will vary by state and city regulations. You will have to confirm requirements with the relevant federal, state or territory authorities.



## Students Will Learn

- **PPE and Safety**
- **Specific Equipment used in OSP Buried Construction (Varies based on Company)**
- **TeleCom Infrastructure**
- **Pedestals, Manholes, Conduit, Buried Cable, Bonding and Grounding, etc.**
- **Excavation, Sloping, Shoring, etc.**
- **Directional Boring (High Level Overview)**
- **Confined Space Operations and Safety**
- **Cable Locating**
- **Trenching and Backhoes**
- **Pulling and Pacing Cables between Pedestals**
- **Mini Plows to Place Small Cables and Buried Drops**
- **And More...**

## Target Audience

Technical staff whose work involves OSP construction of buried telecommunications infrastructure and the skills and knowledge to be familiar with all the necessary equipment evolved in any underground construction projects.

## Prerequisites

Basic understanding of Telecommunications is required.

## Course Outline

Day 1 (1/2 day)

(.50 hours Introductions and housekeeping rule)

Module 1: Telecommunications Infrastructure

(.50 Hours Classroom overview)

- Pedestals
- Manholes
- Hand holes
- Conduit
- Buried cable

Module 2: Excavations, Sloping and Shoring

(2.0 Hours Classroom overview)

- PPE/ Safe Work Practices
- Hazard Recognition
- Competent Person Requirements
- Soil Mechanics
- Shielding, Shoring and Sloping
- Site Inspection
- Underground Utility Lines
- Water Accumulation
- Work site set-up

Module 3: Confined Space Operations and Overview

(1.0 hours Classroom overview)

- Site set up/safety/PPE
- Equipment and tools
- De-watering/pumping
- Purging
- Continuous gas/oxygen testing ?

Day 2

Module 4: Hands-On Equipment Training

(4-8.0 Hours Vermeer Demonstration)

Vermeer representatives (based on availability) on-site to demonstrate all equipment

- Plow
- Mini-Trax
- Trencher
- Directional Bore Machine

Day 3

Module 4: (Continued) Hands-on Equipment Training

Technicians will be able to unload and use all equipment covered by Vermeer

- Technician Operation Training and Practice of Trenching/Plowing, using Backhoe, and Backfilling
- Placing Hand Holes, Pedestals and Cables
- Technician use of Directional Boring Rig
- Use of Utility Cable Locator

## Notes

### Disclaimer

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## Delivery Method

Instructor-Led On-Site.

## **Equipment Requirements**

**(This apply's to our hands-on courses only)**

All mentioned Equipment for this training is Company specific and is provided by the Client for this training.

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

## **Course Length**

3 Days