

Hands-On

# Underground Utility Locating Certification

Phillips 66 Approved Course and Vendor



## Course Description

This Hands-On course is a must for your cable locating technicians. Today's congested underground environments with the massive deployment of fiber optic cables, existing copper in the ground, underground utilities (facilities) for telephone and internet services, cabling systems, electric services, gas lines, liquid pipelines, water and sanitary sewage systems, etc. There are too many uncertainties out in the field. Without the proper training, one missed locate can cost you a lot of money and major headaches.

Today's digital locators have pinpoint accuracy, and are superior to locators of the past. We will show you how to use these new locators and the locators you have on-site.



This course can also be geared to and/or include

- Sheath Fault Locating
- 3D Laser Scanning LiDaR
- 2D/3D Interior As-Builts
- 3D Walk-Thru Tours and Virtual Reality
- 2D/3D Aerial Imagery & Videography
- Utility Locating and Mapping
- Structural Scanning
- Point Cloud Data Collection and Processing
- 811 Locate Contracts
- Subsurface Utility Engineering A&B Levels

BTS is one of the only U.S. and International Approved Course and Vendor for Phillips 66. BTS is the only NULCA accredited trainer in the country, we teach to CGA standards.

## Students Will Learn

- **Electrical Safety/Energize**
- **Peak and Null**
- **Round Fields & Path of Least Resistance**

- **Frequencies & Current**
- **Vertical Inspection of Field**
- **Horizontal Inspection of Field**
- **Changing Current Levels**
- **Changing Field Shape**
- **Endpoint**
- **Locator Theory**
- **Locator Operation**
- **Choosing the Right Frequency**
- **Locating Communication Cables (Fiber/Copper/Coax), Gas Lines, Sewer Pipes, etc.**
- **&65279&65279**
- **Additional Topics Covered Upon Request**
- **Sheath Fault Locating**
- **3D Laser Scanning LiDaR**
- **2D/3D Interior As-Builts**
- **3D Walk-Thru Tours and Virtual Reality**
- **2D/3D Aerial Imagery & Videography**
- **Utility Locating and Mapping**
- **Structural Scanning**
- **Point Cloud Data Collection and Processing**
- **811 Locate Contracts**
- **Subsurface Utility Engineering A&B Levels**
- **and More...**

## Target Audience

Anyone responsible for Underground locating in any environment.

## Prerequisites

This course is designed for individuals with no prior experience as a Utility Locator and/or for those already working in this field.

## Course Outline

To be customized to:

This course can be tailored to any Utility Environment and can include any company equipment and in-the-field Hands-On labs.

## **Delivery Method**

Instructor-Led with numerous Hands-On labs and exercises.

## **Equipment Requirements**

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

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**

2 Days