

Hands-On

Grounding Protection For Employees Based On OSHA 1926.962 Using The Live- Dead-Live Method



Course Description

We BTS prioritize the safety of our clients and their electrical systems as specialists in Electrical Safety and Arc Flash Training, we understand the significance of the "Live Dead Live" test and its role in ensuring an electrically safe work environment. This course delves deep into the intricacies of this test, its importance, and how it can prevent potential hazards. Understanding the "Live Dead Live" Test.

The "Live Dead Live" test is a crucial procedure outlined in the NFPA 70E 2024 Article 120.6. This process is essential for establishing and verifying an electrically safe work condition. The test involves using an adequately rated portable test instrument to test each phase conductor or circuit part at every point of work. The objective is to check for the absence of voltage. It's imperative to test each phase conductor or circuit part both phase-to-phase and phase-to-ground.

Before and after each test, it's crucial to ensure that the test instrument is operating satisfactorily. This verification is done on any known voltage source. The primary purpose of the "Live Dead Live" test is to ensure that the meter used is functioning correctly and fully understanding all safety and OSHA standards and regulations.



Students Will Learn

- **Electrical Safety**
- **Electrical Shock**
- **Safe Work Practices**
- **Review Of specifications related to course OSHA 1926.926**
- **Live Dead Testing Method**

Target Audience

Employees who are designated or required to work on or around transmission and distribution lines and equipment.

Course Outline

Module 1 Electrical Safety

- OSHA
- NESC
- Regulatory Agencies

Module 2 Electrical Shock

- Shock hazard severity
- Emergency response
- CPR qualified person

Module 3 Safe Work Practices

This module will state and explain the process of working on an electrical circuit. Material will include testing, and protective measures that must be in place prior to working on any electrical circuit. The following is a list of some topics covered:

- De-energize
- Lock out tag out- Try
- Test
- Safety Grounds
- Purpose of grounding
- System Grounds
- Equipment Grounds
- Grounding requirements
- PPE
- Protective equipment
- Unsafe personal items and prohibited tools
- Approach distances

Module 4 Review Of specifications related to course: OSHA 1926.926

Module 5 Live Dead Testing Method

This section will state and explain the process of testing electrical circuits and equipment with the Live Dead Live testing method.

- Review testing tools used in the industry.

(Please let us know what testers you use, as we will spend extra time on you specific tools and needs if necessary)

The remainder of the course will bring everything together and we will perform testing on lines and equipment on the needs of the operation and equipment. We can place grounds on lines and equipment as needed.

Tools and meters that should be available:

- Digital meters
- Proximity testers
- Test sticks
- Hot sticks

Lab should have equipment and or cable that the technicians will be working on or around.

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