

Hands-On

# Copper (LEAD-POLY) Cable Repair



## Course Description

This Hands-On course is suited for the technician who will be responsible and working with LEAD-Poly cables in an Outside Plant environment. This course is designed for the proper handling and Hands-On techniques when working with LEAD-Poly cables.

The old-school methods available to telephone maintenance staff to repair LEAD-Poly cable issues were to use the "Torch Method" or "Hot-Wipe Method" using lead sleeves/closures to fix the cable issues instead of having the expense of replace the cable section with a new one.

These methods are quickly becoming a lost art in the telecommunications industry, in effort to joint-weld and solder using lead on the cable or having to fire up the torch, these methods are not only difficult but many phone companies have very few technicians, if any, that currently have the training or expertise to perform Lead Cable repairs in the field.

This is a lab intensive course and will help develop the Hands-On practical skill sets for identifying, opening, splicing, closing and repairing the specified lead copper cables in an outside plant environment.

### NOTE

Lead Sleeves need to be provided for this training by the client. However, BTS can provide the Lead Sleeves for an additional cost that can be included as part of the tuition, please ask your account manager for details.



## Students Will Learn

- **Lead Safety (OSHA and Standards)**
- **Proper Tools (splicing-tools, tanks, torches, blowers, sleeves/closures, etc.)**
- **How to Identify a Lead Cable**
- **How to Open a Lead Cable**
- **How to Install Lead Closure**
- **Maintaining Air Pressure while Cable is Opened**
- **Air Methods Tanks, Pressurization, etc.**
- **How to Count Cable Groups in Lead Cable**
- **How to Splice Paper Cable with Amps or Modules**
- **How to Properly Close the Cable**

- **How to Solder or Pour Lead End Plates**
- **Fit Lead Sleeves Around Cable Joints**
- **Proper Use and Safety of "Torch Method" or "Hot-Wipe Method"**
- **How to Perform "Wipes" / "Torch Method" in the Field.**
- **How to Joint Weld and Re-Solder**
- **The Proper techniques to wipe and un-wipe Lead Cable**
- **How to Put on Pre-Form Cases on Pressurized Poly Cable**
- **Testing Cable for Leaks**
- **How to Troubleshoot Lead Cables Issues**
- **Understand Rodent Preparation and Protection**
- **Testing and Tagging Procedures**
- **And more...**

## Target Audience

Anyone who is entering the telecommunications industry who will be required to repair, maintain and troubleshoot LEAD/POLY copper telecommunications cables in an outside plant environment.

## Prerequisites

A basic understanding of telephone installation and repair, and a working knowledge of splicing copper cables.

## Course Outline

This course is to be tailored to company specific cabling equipment and requirements.

## Notes

Specific equipment is required for this training and will have to be outlined and confirmed with client, per training location.

## 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**

3 Days