

Course Name: Copper Testing with the Fluke Networks CopperPro™

Course Overview:

This course is focused on providing an I&M or repair technician a hands-on training course on the operation of the CopperPro tester as well as results interpretation and troubleshooting guidelines.

Course Length: 2 days

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/ Field Supervisors
- Design Engineers
- Electricians
- Managers or Supervisors

You will learn:

- Product details and applications of the CopperPro
- Conductivity and power testing
- POTS testing
- DDS and xDSL services testing
- How to use and interpret Time Domain Reflectometer (TDR) results

Prerequisites: None

Customizable Course: Yes



Course Content:

Product Overview

- Hardware Overview
 - Graphical Display
 - Buttons
 - Connectors
 - Battery
 - Cables

Overview of CopperPro Applications

- Toolbox
 - POTS
 - xDSL
 - TDR
- Test Setup Menus
- Graphical pictorial test setup
- Graphical pictorial results
- Calibrating the unit
- Running self tests
- Auto-Testing

Basic Copper Tests

- Butt Set/POTS Dialer
- DC Tests (Resistance, Voltage, Current...)
- AC Tests (Capacitance, Tones/Signal...)

POTS Testing

- POTS Technology Review
- Basic Dial Set
- POTS Auto-Test
- Current/Voltage Measurements
- Opens/Capacitance Measurements

- Resistive Faults
- Noise Testing
- VF Tone/Loss Testing

DDS

- Technology Review
- Installation and Maintenance Testing

xDSL Overview

- xDSL Technology Overview
 - ADSL
 - ISDN
 - HDSL/HDSL2/HDSL4
 - T1/DS1
- Auto-Testing (ADSL, xDSL, G.)
- WB Testing
- Physical Pair Testing
- ATU-C/ATU-R testing
- DSLAM Verify Test

Time Domain Reflectometer (TDR)

- Overview of TDR testing
- Settings
 - Prop Velocity
 - Pulse Width
- Graph Interpretation
- Maneuvering TDR pulses
- Saving/Deleting Traces

Product Support Functions

- Remote Control
- Printing
- System Controls/Information

