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

Course Fees:

- 2 day course at a TESSCO Location $950 per person
- 2 day course at your location $6,000 for up to 10 attendees

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