

Course Name: ADSLx Installation and Maintenance

Course Overview:

DSL technology is everywhere! This course is designed to give the student an understanding of xDSL technologies but focuses on the most common ADSL specification. All equipment and parameters will be discussed and in both the provider and end user locations. Special attention will also be given to basic home networking applications. Hands-on applications are a key to properly installing and maintaining ADSL lines, so this class is best suited for customized delivery at your location where specific DSL lines can be provided. We will fine-tune the points or products and techniques of particular importance to your operations. Our skilled instructors and staff will tailor the module to meet your requirements.

Course Length: 2 days

Who should attend?

- Telephone Companies
- Power Companies
- Outside Plant Contractors
- Small Business Owners
- Engineers/Planners
- Installers/Technicians
- End Users
- Management staff

You will learn:

- DSL Industry Technology Fundamentals
- xDSL Industry Overview and Applications
- ADSL Technology
- ADSL in the Central Office (CO)
- ADSL in the Loop/Plant
- ADSL at the Customer Premise

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:



DSL Industry Overview

- Trends
- Drivers

xDSL Overview

- ADSL, IDSL, SDSL, HDSL, VDSL and ADSL Light
- Comparison to other technologies

ADSL Fundamentals

- Technology Overview
- Speeds/Bandwidth
- Network Equipment
- Test Access Points
- Line Coding
- Frequency Range/Spectrum
- Types of Service Offerings

ADSL Test Equipment

- Types of test equipment
- Proper testing techniques

Lab 1 – Test Equipment Setup

ADSL in the Loop/Plant

- Copper Facilities
- Distances
- ADSL over Carrier Systems
- Interference/Errors
- Installation and Maintenance Techniques

Lab 2 – Testing at the NID

ADSL in the Central Office (CO)

- DSLAM
- Splitters
- Network side
- Installation and Maintenance Techniques

Lab 3 – Verifying service

ADSL at the Customer Premise

- Inside Wiring
- Filters/Splitters

- POTS over ADSL
- Routers/Modems
- Home Networking Overview
- Installation and Maintenance

Lab 4 –Service verification

- Voice
- Data/Internet