

ADSL Fundamentals and Testing

Course Length	2 days
Course Code	1307
Prerequisites	None, however an Introduction to Data technologies course is extremely helpful.
Course Overview:	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 home networking applications.

This course can be customized or combined to meet specific system requirements

Course Outline

xDSL Overview

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

ADSL Fundamentals

- Technology Overview
- ADSL2/ADSL2+
- Speeds/Bandwidth
- Network Equipment
- Test Access Points
- Service Offerings



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ADSL Fundamentals and Testing

Testing Equipment

- Testing Modes
- Setup
- Specifications
- Actual/Maximum Rate
- Noise Margin
- Signal Strength

Signal Coding

- DMT
- Frequency Range/Spectrum

ADSL in the Central Office (CO)

- DSLAM
- Splitters
- Wiring
- Installation and Provisioning
- Network Connectivity

ADSL in the Loop/Plant

- Copper Facilities
- Load Coils
- Bridged Taps
- Distances
- ADSL over Carrier Systems
- Interference/Errors
- Installation and Maintenance

ADSL at the Customer Premise

- Inside Wiring for Phone and Data
- Filters/Splitters
- Routers/Modems
- Home Networking Overview
- Installation and Maintenance