

# ADSL Fundamentals and Testing



<b>Course Length</b>	2 days
<b>Course Code</b>	NFSDSL1
<b>Prerequisites</b>	None, however an Introduction to Data technologies course is extremely helpful.
<b>Course Overview:</b>	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.

**NetForce Solutions, Inc.**  
17281 Simmons Road  
Purcellville, VA 20132

**phone** (540) 338-5824  
**fax** (509) 757-1661

info@netforcesolutions.com

**www.netforcesolutions.com**

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

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## Course Outline

### 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 in the Central Office (CO)**

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

## **ADSL in the Loop/Plant**

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

## **ADSL at the Customer Premise**

- Inside Wiring
- Filters/Splitters
- POTS over ADSL
- Routers/Modems
- Home Networking Overview
- Installation and Maintenance



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