

# Adtran Switch Engine (ASE)

2 days *virtual or classroom* technical training



Our NetVanta 1560 Series of enterprise-class, fully managed Gigabit PoE+ switches are the best choice for supporting highly resilient IoT, cloud applications and voice over IP (VoIP). They are purpose-built for enterprises looking to upgrade their networks with high-performance, reliable, scalable and easy-to-manage switching solutions. What's more, they provide advanced multi-layer switching, high-bandwidth capabilities, voice-aware features and the right functionality to enable scaling from small business to enterprise-sized networks..

## Objective

This course is designed for those students who will be designing, implementing, and supporting solutions using the NetVanta 1560 Series of enterprise-class, fully managed Gigabit Switches. This course will include interactive lectures as well as lab exercises presented through our virtual lab environment. Integrated lab exercises are designed to reinforce the class content with installation, configuration, and troubleshooting procedures. After completion of the course, the student should be able to install and maintain the Adtran NetVanta 1560.

## Benefits & Audience

- **Benefits:** To achieve self-sufficiency at installation, configuration and maintenance of the Adtran Switch Engine solution
- **Class size:** 12 students maximum
- **Target Audience:** End Users, System Engineers, Network Engineers, Value Added Resellers and Distributors
- Certificate of Attendance

## Prerequisites

ASE Switches Overview – students can self-enroll at [www.adtranuniversity.com](http://www.adtranuniversity.com)

# Adtran Switch Engine (ASE)

## Agenda

### Theory/Lecture

- NetVanta ASE Switches Introduction
- Switching Basics
  - Accessing the Switch
  - Default Config
  - Creating VLANs
  - Creating VLAN Interfaces
  - Setting up DHCP
  - PoE
  - Show Command for Basic Troubleshooting
  - Management
    - Console, Telnet, SSH
    - S-Flow
    - N-Command
    - Syslog
  - Securing Access
    - AAA/Radius
    - Etc.
  - NetVanta 1560 & n-Command MSP
  - Switch Utility Features
  - HW ACLS
- L2 CPE Network Features
  - Spanning Tree
  - STP/NTP
  - LLDP
  - LACP
  - Class of service / QOS
- L2 Carrier Network Features
  - SFPs
  - ERPS (TA5K and Non-Adtran)
  - Q-in-Q
  - Double Tag
  - Traffic Control
  - Y.1731/OAM
- L3 Switching
  - IPv4
  - IPv6
  - L3 Switches primer
- Deployment Scenarios and Configurations
  - Small Office/ CPE Network no voice
  - Small Office- Voice VLAN
  - Small Office – Wireless, Voice
  - ERPS Ring
  - GPON SFP
- APPENDIX: Additional Resources
- APPENDIX: Configurations

### Practice/Lab

- Students will be using Amazon Workspaces (AWS) for all lab exercises.
- ASE Introduction
- ASE Switch basics
  - Physical interface configuration
  - Creating VLANs
  - Management
- ASE Voice Configuration
- ASE Advanced features

# Adtran Switch Engine (ASE)

## Contact

Email: [training@adtran.com](mailto:training@adtran.com)

Website: [www.adtranuniversity.com](http://www.adtranuniversity.com)

Phone: +1-888-423-8726

## Ordering Information

### Part Number

1600NETVGSE

1600NETVGSC

### Description

Per Enrollment (Student)

Per course