

COURSE OVERVIEW:

Implementing Secure Solutions with Virtual Private Networks (SVPN) v1.0 is a 5-day course which teaches students how to implement, configure, monitor, and support enterprise Virtual Private Network (VPN) solutions. Through a combination of lessons and hands-on experiences students will acquire the knowledge and skills to deploy and troubleshoot traditional Internet Protocol Security (IPsec), Dynamic Multipoint Virtual Private Network (DMVPN), FlexVPN, and remote access VPN to create secure and encrypted data, remote accessibility, and increased privacy.

PREREQUISITES:

The knowledge and skills that a learner should have before attending this course are as follows:

- Familiarity with the various Cisco router and firewall command modes
- Experience navigating and managing Cisco routers and firewalls
- Clear understanding of the benefits of site-to-site and Remote Access VPN options

COURSE OBJECTIVES:

Upon completing this course, the learner will be able to meet these overall objectives:

- Introduce site-to-site VPN options available on Cisco router and firewalls
- Introduce remote access VPN options available on Cisco router and firewalls
- Review site-to-site and remote access VPN design options
- Review troubleshooting processes for various VPN options available on Cisco router and firewalls

WHO SHOULD ATTEND:

The primary audience for this course is as follows:

- Network security engineer
- CCNP Security candidate
- Channel Partner



Implementing Secure Solutions with Virtual Private Networks (SVPN) 1.0

COURSE OUTLINE:

- Introducing VPN Technology Fundamentals
- Implementing Site-to-Site VPN Solutions
- Implementing Cisco Internetwork Operating System (Cisco IOS®) Site-to-Site FlexVPN Solutions
- Implement Cisco IOS Group Encrypted Transport (GET) VPN Solutions
- Implementing Cisco AnyConnect VPNs
- Implementing Clientless VPNs

LAB OUTLINE:

- Explore IPsec Technologies
- Implement and Verify Cisco IOS Point-to-Point VPN
- Implement and Verify Cisco Adaptive Security Appliance (ASA) Point-to-Point VPN
- Implement and Verify Cisco IOS Virtual Tunnel Interface (VTI) VPN
- Implement and Verify Dynamic Multipoint VPN (DMVPN)
- Troubleshoot DMVPN
- Implement and Verify FlexVPN with Smart Defaults
- Implement and Verify Point-to-Point FlexVPN
- Implement and Verify Hub and Spoke FlexVPN
- Implement and Verify Spoke-to-Spoke FlexVPN
- Troubleshoot Cisco IOS FlexVPN
- Implement and Verify AnyConnect Transport Layer Security (TLS) VPN on ASA
- Implement and Verify Advanced Authentication, Authorization, and Accounting (AAA) on AnyConnect VPN
- Implement and Verify Clientless VPN on ASA