

COURSE OVERVIEW:

Implementing Cisco Secure Mobility Solutions (SIMOS) v1.0 is a newly created five-day instructor-led training (vILT) course that is part of the curriculum path leading to the Cisco Certified Network Professional Security (CCNP Security) certification. This course is designed to prepare network security engineers with the knowledge and skills they need to protect data traversing a public or shared infrastructure such as the Internet by implementing and maintaining Cisco VPN solutions. Students of this course will gain hands-on experience with configuring and troubleshooting remote access and site-to-site VPN solutions, using Cisco ASA adaptive security appliances and Cisco IOS routers.

WHO SHOULD ATTEND:

- Network Security Engineers

PREREQUISITES:

The knowledge and skills you must have before taking this course consist of the following:

- Cisco Certified Network Associate (CCNA[®]) certification
- Cisco Certified Network Associate (CCNA[®]) Security certification
- Knowledge of Microsoft Windows operating system

COURSE OBJECTIVES:

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

- Describe the various VPN technologies and deployments as well as the cryptographic algorithms and protocols that provide VPN security.
- Implement and maintain Cisco site-to-site VPN solutions.
- Implement and maintain Cisco FlexVPN in point-to-point, hub-and-spoke, and spoke-to-spoke IPsec VPNs.
- Implement and maintain Cisco clientless SSL VPNs.
- Implement and maintain Cisco AnyConnect SSL and IPsec VPNs.
- Implement and maintain endpoint security and dynamic access policies (DAP).



COURSE OUTLINE:

- Lesson 1: Fundamentals of VPN Technologies and Cryptography
- Lesson 2: Deploying Secure Site-to-Site Connectivity Solutions
- Lesson 3: Deploying Cisco IOS Site-to-Site FlexVPN Solutions
- Lesson 4: Deploying Basic Cisco Clientless SSL VPN
- Lesson 5: Deploying Cisco AnyConnect VPNs
- Lesson 6: Deploying Endpoint Security and Dynamic Access Policies

LAB OUTLINE:

- Lab 1: Implement Site-to-Site Secure Connectivity on the Cisco ASA
- Lab 2: Implement Cisco IOS Static VTI Point-to-Point Tunnel
- Lab 3: Implement DMVPN
- Lab 4: Implement Site-to-Site Secure Connectivity Using Cisco IOS FlexVPN
- Lab 5: Implement Hub-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Lab 6: Implement Spoke-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Lab 7: Implement ASA Basic Clientless SSL VPN
- Lab 8: Application Access Clientless SSL
- Lab 9: Advanced AAA Clientless SSL
- Lab 10: Implement ASA Basic AnyConnect SSL VPN
- Lab 11: Configure Advanced Cisco AnyConnect SSL VPN on Cisco ASA
- Lab 12: Configure Cisco AnyConnect IPsec/IKEv2 VPNs on Cisco ASA
- Lab 13: Configure Advanced Authentication for Cisco AnyConnect VPN on Cisco ASA
- Lab 14: Configure Hostscan and DAP for AnyConnect SSL VPNs