



CISCO TRAINING

Implementing Cisco SD-WAN Security and Cloud Solutions

Implement robust Cisco SD-WAN security and cloud solutions. Master secure network deployment and management for modern enterprises.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level course, "Implementing Cisco SD-WAN Security and Cloud Solutions," provides a comprehensive deep dive into securing your Software-Defined Wide Area Network (SD-WAN) and seamlessly integrating it with various cloud environments. Participants will gain practical expertise in deploying and managing advanced security features within the Cisco SD-WAN fabric, including firewall policies, intrusion prevention, URL filtering, and deep packet inspection. The curriculum also emphasizes establishing secure connectivity to public cloud providers like AWS, Azure, and Google Cloud, ensuring consistent policy enforcement and optimal performance across hybrid and multi-cloud architectures. Upon completion, you will be equipped to design, implement, and troubleshoot robust security solutions for modern SD-WAN deployments, protecting critical data and applications while leveraging the agility and scalability of cloud platforms. This specialized knowledge is crucial for network professionals aiming to fortify their organization's network perimeter, optimize cloud connectivity, and ensure compliance in a rapidly evolving threat landscape. The course's hands-on approach prepares you for real-world challenges, enhancing your ability to deliver secure and efficient network services.

Duration	2 hours
Level	Intermediate
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Cisco SD-WAN Security Fundamentals

- Introduction to SD-WAN Security Challenges
- Cisco SD-WAN Security Components and Architecture
- Control Plane Security (OMP, BGP, TLOC-Ext)
- Data Plane Security (IPsec, DTLS)
- Understanding Security Zones and VRFs in SD-WAN

02 Module 2: Implementing Advanced SD-WAN Security Features

- Configuring Cisco SD-WAN Firewall Policies
- Deploying Intrusion Prevention System (IPS) in SD-WAN
- URL Filtering and Application Visibility Control
- Implementing Advanced Malware Protection (AMP) and Threat Grid Integration
- Deep Packet Inspection (DPI) for Application-Aware Security

03 Module 3: Secure Cloud Integration with Cisco SD-WAN

- Connecting SD-WAN to Public Cloud Environments (AWS, Azure, GCP)
- Securing Cloud Workloads via SD-WAN Gateways
- Implementing Direct Cloud Access (DCA) and Cloud OnRamp
- Configuring IPsec and GRE Tunnels for Cloud Connectivity
- Leveraging Cloud Security Services with SD-WAN

04 Module 4: SD-WAN Security Policy Enforcement and Management

- Centralized Security Policy Orchestration with vManage
- Applying Security Policies to Specific Applications and Users
- Segmentation and Micro-segmentation in SD-WAN
- Monitoring and Reporting on SD-WAN Security Events
- Troubleshooting SD-WAN Security Issues

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **SD-WAN Network Security Engineer**
- > **Cloud Network Architect**
- > **Enterprise Network Operations Specialist (with a focus on Secure SD-WAN)**

FREQUENTLY ASKED QUESTIONS

Q: What specific skills will I gain that are crucial for an SD-WAN Network Security Engineer after completing this course?

This course will equip you with the practical skills to design, implement, and manage advanced security policies directly within the Cisco SD-WAN fabric, including stateful firewalls, IPS, URL filtering, and AMP. You'll also master secure integration techniques for connecting your SD-WAN to leading public cloud platforms like AWS and Azure, ensuring consistent security posture across hybrid environments. This hands-on expertise is directly applicable to securing modern distributed networks.

Q: Are there any recommended prerequisites or prior knowledge needed to maximize my learning experience in this intermediate-level course?

Yes, to fully benefit from this course, it is recommended that you have a foundational understanding of Cisco SD-WAN architecture and basic configuration, equivalent to what would be covered in an 'Implementing Cisco SD-WAN' or 'Cisco SD-WAN Operations and Deployment' course. Familiarity with general networking concepts, routing protocols (like OSPF/BGP), and basic security principles (firewalls, VPNs) will also be highly beneficial.

Q: How does this course address multi-cloud security challenges, and what specific strategies will I learn for integrating SD-WAN with different cloud providers?

This course directly tackles multi-cloud security by teaching you how to establish secure and optimized connectivity from your Cisco SD-WAN fabric to various public cloud environments, including AWS, Azure, and Google Cloud. You'll learn to configure secure IPsec/GRE tunnels, leverage Cloud OnRamp for SaaS and IaaS, and extend SD-WAN security policies consistently across your hybrid infrastructure, ensuring a unified security posture regardless of the cloud provider.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

10,000+

50+

Years of Excellence

Professionals Trained

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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