
Advanced Cisco SD- WAN Routing, Templates, Policy Configure, and Tshoot v4.0 (ADVANCED- SDWAN-GOV)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***

Advanced Cisco SD-WAN Routing, Templates, Policy Configure, and Tshoot v4.0 (ADVANCED-SDWAN-GOV)

Course Duration

5 days

Course Price

\$4,395.00

43 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

About this Class

This five-day, extensive, well-structured course outline provides a comprehensive training experience on Advanced SD-WAN features, tailored specifically for Federal and State Government Networks. The focus on the 20.12 SD-WAN and 17.12 IOS-XE releases ensures that participants are trained on the most relevant technologies for their environments. Participants will also learn to design and deploy advanced local and centralized policies, integrate SD-WAN Security with Umbrella Cloud Security, and troubleshoot these implementations. The course concludes with a review of SD-WAN concepts for Government Networks, including high availability, SD-AVC, QoS Policies, advanced template design, routing protocols, Multicast Routing, and strategies for network migration to SD-WAN, including Cisco Multi-Region Fabric and migration from vEdge to cEdge Routers.

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Key topics include:

- Advanced design and deployment of Feature, Device, CLI Templates, and Configuration Groups
- QoE features: Forward Error Correction (FEC), TCP Optimization (TCP OPT), Data Redundancy Elimination (DRE), and QoS policies
- Overlay, Transport, and Service-Side Routing Protocols: OMP, BGP, EIGRP, OSPF, RIP, On-demand routing, and Direct Internet Access (DIA)
- Multicast Routing in an SD-WAN environment

How you will benefit

This class will help you:

- Gain the knowledge and skills needed to ensure the reliability, security, and efficiency of networks using Cisco Meraki Wireless Networks.
- Understand how to design, implement, manage, and troubleshoot networks

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Network Engineers
- System Administrators
- IT Professionals in Government Agencies
- Technical Support Staff
- Cisco Certified Professionals

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Objectives

After taking this course, you should be able to:

- SD-WAN Review and Baseline Knowledge
- SD-WAN High Availability
- Catalyst SD-WAN Clusters for Government Networks
- Advanced Feature and Device Template Design and Troubleshooting
- Advanced Configuration Group Design
- Designing and Optimizing Network QoS
- Advanced SD-WAN Security with on-premises solutions and integration with Umbrella Cisco SASE
- Design and Troubleshooting of Cisco SD-WAN Routing Infrastructure:
- Design and Troubleshooting Catalyst SD-WAN Local Policies
- Design and Troubleshooting Catalyst SD-WAN Central Policies
- Overview and Design of SD-WAN Multi-Region Fabric
- Designing and Implementing a Cisco SD-WAN Migration Strategy
- Student will discuss and plan for a Migration to SD-WAN from other types of networks

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Course Outline

Module 0: Introductions

Module 1: SD-WAN Review and Baseline Knowledge

Module 2: SD-WAN High Availability

Module 3: Catalyst SD-WAN Clusters for Government Networks

Module 4: Advanced Feature and Device Template Design and Troubleshooting

Module 5: Advanced Configuration Group Design

Module 6: Designing and Optimizing Network QoS

Module 7: Advanced SD-WAN Security with on-premises solutions and integration with Umbrella Cisco SASE

Module 8: Design and Troubleshooting of Cisco SD-WAN Routing Infrastructure

Module 9: Design and Troubleshooting Catalyst SD-WAN Local Policies

Module 10: Design and Troubleshooting Catalyst SD-WAN Central Policies

Module 11: Overview and Design of SD-WAN Multi-Region Fabric

Module 12: Designing and Implementing a Cisco SD-WAN Migration Strategy