
Cisco SD-WAN Operation and Deployment (SDWFND)

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



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Course Duration

2 days

Course Price

\$1,995.00
20 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

In this Cisco SD-WAN Operation and Deployment course provides a comprehensive overview of the Cisco® Software-Defined WAN (SD-WAN) solution and Cisco SD-WAN components such as SD-WAN Manager, SD-WAN Controller, SD-WAN Validator.

You will learn how to deploy, manage, and operate a secure, programmable, and scalable SD-WAN fabric using IOS XE Cisco SD-WAN products. The course also covers how to configure, operate, and monitor overlay routing across the Cisco SD-WAN network. In addition, you will learn about data and control policies, and how to deploy Quality of Service (QoS) and Direct Internet Access (DIA) in the SD-WAN overlay network. This training also earns you 14 Continuing Education (CE) credits toward recertification.

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How you will benefit

This class will help you:

- Establish transport-independent WAN for lower cost and higher diversity
- Meet SLAs for business-critical and real-time applications
- Provide end-to-end segmentation for protecting critical enterprise compute resources
- Extend seamlessly into the public cloud
- Optimize the user experience for Software-as-a-Service (SaaS) applications
- Earn 14 CE credits toward recertification

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
- Network Architects
- Network Designers
- Network Administrators
- Solutions Architects
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators/Partners
- Security Engineers
- Network Managers
- Program Managers
- Project Managers
- IT Directors/Chief Information Officers (CIOs)

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Objectives

After taking this course, you should be able to:

- Discuss why traditional WANs struggle with modern demands and explain how Cisco Catalyst SD-WAN's architecture and core principles address those challenges
- Identify the main Cisco Catalyst SD-WAN components and explain how their roles and interactions support the overall solution
- Explain and perform secure controller and WAN Edge onboarding using zero-trust principles (ZTP) and secure control channels
- Implement and verify secure data plan operations using IPsec, segmentation, bidirectional forwarding detection (BFD)-based path monitoring, app visibility, and site redundancy
- Configure and verify Overlay Management Protocol (OMP)-based overlay routing, including route advertisement, redistribution, and network segmentation
- Manage Cisco Catalyst SD-WAN device configurations using Configuration Groups, Feature Profiles, Device Templates, and automation workflows for scalable, consistent deployment
- Navigate SD-WAN Manager monitoring dashboards and interpret key metrics and alarms for troubleshooting and operational visibility
- Design and apply centralized and localized policies, including Quality of Service (QoS) and Application Quality of Experience (AppQoE), to control and prioritize traffic across the SD-WAN fabric
- Implement Direct Internet Access (DIA) and cloud optimization features to enhance application experience, traffic flow, and branch security in Cisco Catalyst SD-WAN

Prerequisites

To fully benefit from this course, you should have the following knowledge:

- Familiarity with traditional WAN technologies such as MPLS and internet circuits
- Working knowledge of Cisco IOS networking and concepts, including Open Shortest Path First (OSPF) routing and IPsec tunnels
- Basic understanding of network security concepts and familiarity with operating system interfaces (CLI/GUI) for device interaction

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Course Outline

- Module 1: SD-WAN Evolution and Core Concepts
- Module 2: Cisco Catalyst SD-WAN Components and Roles
- Module 3: Initial SD-WAN Deployment
- Module 4: Secure Data Plan and Segmentation
- Module 5: Configuration Management and Automation
- Module 6: Overlay Routing and Integration
- Module 7: Cisco Catalyst SD-WAN Policies
- Module 8: Direct Internet Access and Cloud Optimization

Lab Outline

- Lab 1: Access and Monitor Cisco Catalyst SD-WAN Components
- Lab 2: Deploy and Verify Cisco Catalyst SD-WAN Edge Routers
- Lab 3: Deploy Cisco Catalyst SD-WAN Edge Configuration
- Lab 4: Implement Cisco Catalyst SD-WAN Overlay Routing
- Lab 5: Deploy Cisco Catalyst SD-WAN Policies