

Cisco SD-WAN Operation and Deployment (SDWFND) v1.0

What you'll learn in this course

The **Cisco SD-WAN Operation and Deployment (SDWFND) v1.0** course provides an overview of the Cisco® Software-Defined WAN (SD-WAN) solution and SD-WAN components. You will learn how to create, manage, and operate an SD-WAN network using Cisco SD-WAN products. The course covers how to configure, operate, and monitor overlay routing in an SD-WAN network. In addition, you will learn about control and data policies, and how to deploy Quality of Service (QoS) in the SD-WAN overlay network.

The course lab environment is built using Cisco vEdge Cloud routers and Cisco SD-WAN 20.3 code.

The Cisco SD-WAN solution is a cloud-delivered overlay WAN architecture that facilitates digital and cloud transformation for enterprises. Cisco SD-WAN significantly reduces WAN costs and time to deploy new services. With Cisco SD-WAN, you can build a robust security architecture that is crucial for hybrid networks and provides a strong policy framework.

The course will allow you to earn 16 Continuing Education (CE) credits toward recertification.

Course duration

- Instructor-led training: 2 days in the classroom with hands-on lab practice
- E-learning: 7 hours of instruction, including videos and 5 hands-on lab exercises

How you'll benefit

This class will help you learn to use Cisco SD-WAN to:

- 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

Who should enroll

- Enterprise network system installers
- System integrators
- System administrators
- Network administrators
- Solutions designers

How to enroll

E-learning

- To buy a single e-learning license, visit the [Cisco Learning Network Store](#).
- For more than one license, or a learning library subscription, contact us at learning-bdm@cisco.com.

Instructor-led training

- Find a class at the [Cisco Learning Locator](#).
- Arrange training at your location through [Cisco Private Group Training](#).

Technology areas

- Networking
- Software-defined networking

Course details

Objectives

After taking this course, you should be able to:

- Identify the various network elements of the Cisco SD-WAN solution.
- Deploy WAN Edge routers.
- Create templates to aide in the deployment and operation of the Cisco SD-WAN network.
- Configure and verify Cisco SD-WAN overlay routing.
- Create simple policies to control traffic flow through the Cisco SD-WAN fabric

Prerequisites

Before taking this course, you should have the following knowledge and skills:

- Strong understanding of enterprise WAN design
- Strong understanding of interior and exterior routing protocol operation
- Familiarity with Transport Layer Security (TLS) and IP Security (IPsec)

Outline

- Cisco SD-WAN Solution Components
 - Cisco SD-WAN Solution Overview
 - Cisco SD-WAN Components
 - Managing SD-WAN Components
- Cisco SD-WAN Network Deployment
 - Secure Control Plane Operation
 - Secure Control Plane Deployment
 - Secure Data Plane Operation
 - Cloud Deployments and Redundancy

Course overview

- Cisco SD-WAN Template Deployment
 - Templates Overview
 - Feature Templates
 - Device Templates
 - Attaching Devices to Templates
- Cisco SD-WAN Overlay Routing
 - Overlay Routing Overview
 - OMP Route Advertisements
 - OMP Route Redistribution and Network Segmentation
 - Configuring and Verifying Overlay Routing
- Cisco SD-WAN Policies and QoS
 - Policy Overview and Framework
 - vSmart Policy Operation and Construction
 - Forwarding and QoS Overview
 - Configuring and Monitoring QoS Forwarding

Lab outline


- Manage and Monitor Cisco SD-WAN Components
- Deploy and Verify Cisco SD-WAN Edge Routers
- Deploy Cisco SD-WAN Templates
- Implement Cisco SD-WAN Overlay Routing
- Deploy Cisco SD-WAN Policies

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