Document Generated: 11/05/2026

Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Intermediate

Course Duration: 2 Days

Cisco SD WAN Operation and Deployment 2.0 (ENSDW)



About this course:

The *ENSDW - Cisco SD-WAN Operation and Deployment v1.0* course provides an overview of the Cisco SD-WAN solution and SD-WAN components. Students will learn how to create, manage, and operate a secure extensible network using Cisco SD-WAN products. The course covers how to configure, operate, and monitor overlay routing in a secure extensible network. Students will also learn about

policies and quality of service (QoS) in the SD-WAN overlay network.

Course Objective:

Upon completion of this course, you will be able to:

- Identify the various components and architecture of the Cisco SD-WAN solution.
- Deploy vEdge routers in a secure extensible network.
- Create templates to aide in the deployment and operation of the secure extensible network.
- Configure and verify overlay routing in the secure extensible network.
- Create simple policies to control traffic flow in the secure extensible network.

Audience:

- Enterprise Network System Installers
- System Integrators
- System Administrators
- Network Administrators
- Solutions Designers

Prerequisite:

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Strong understanding of enterprise wide area network design
- Strong understanding of routing protocol operation, including both interior and exterior routing protocol operation
- Familiarity with Transport Layer Security (TLS) and IP Security (IPSec)

Course Outline:

Module 1: SD-WAN Solution Components

Lesson 1: SD-WAN Solution Overview
Lesson 2: SD-WAN Components
Lesson 3: Managing SD-WAN Components

Module 2: Secure Extensible Network Deployment

Lesson 1: Secure Control Plane Operation
Lesson 2: Secure Control Plane Deployment
Lesson 3: Secure Data Plane Operation
Lesson 4: Cloud Deployments and Redundancy

Module 3: SD-WAN Template Deployment

Lesson 1: Templates Overview
Lesson 2: Feature Templates
Lesson 3: Device Templates
Lesson 4: Attaching Devices to Templates

Module 4: SD-WAN Overlay Routing

Lesson 1: Overlay Routing Overview
Lesson 2: OMP Route Advertisements
Lesson 3: OMP Route Redistribution and Network Segmentation
Lesson 4: Configuring and Verifying Overlay Routing

Module 5: SD-WAN Policies and QoS

Lesson 1: Policy Overview and Framework
Lesson 2: vSmart Policy Operation and Construction
Lesson 3: Forwarding and QoS Overview
Lesson 4: Configuring and Monitoring QoS Forwarding

Lab:

- Lab 1: Manage and Monitor SD-WAN Components
- Lab 2: Deploy and Verify SD-WAN vEdge Routers
- Lab 3: Deploy SD-WAN Templates
- Lab 4: SD-WAN Overlay Routing
- Lab 5: SD-WAN Policies

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