

Cisco SD-WAN Operation and Deployment

Duration: 2 Days **Course Code: SDWFND** **Version: 2.0** **Delivery Method: Virtual Learning**

Overview:

The Cisco SD-WAN Operation and Deployment(SDWFND) course provides a comprehensive overview of the Cisco® Software-Defined WAN (SD-WAN) solution and Cisco SD-WAN components such as vManage, vSmart and vBond.

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 using the Cisco vManage management console. In addition, you will learn about deploying data and control policies as well as Quality of Service (QoS) and Direct Internet Access (DIA) in the SD-WAN overlay network.

This course is worth 16 Continuing Education (CE) credits.

Target Audience:

Engineers involved in the implementation of a Cisco SD-WAN environment.

Objectives:

- **After completing 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 aid in the deployment and operation of the secure extensible network.
- Configure and verify Cisco SD-WAN overlay routing.
- Create simple policies to control traffic flow through the Cisco SD-WAN fabric.

Prerequisites:

Attendees should meet the following pre-requisites:

- 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)
- CCNA - Implementing and Administering Cisco Solutions
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Follow-on-Courses:

- ENSDWI - Implementing Cisco SD-WAN Solutions

Content:

SD-WAN Solution Components

- SD-WAN Solution Overview
- SD-WAN Components
- Managing SD-WAN Components

Cisco SD-WAN Network Deployment

- Secure Control Plane Operation
- Secure Device Onboarding
- Secure Data Plane Operation
- Site Redundancy

Cisco SD-WAN Configuration Management

- Configuration Management Overview
- Device and Feature Templates
- Configuration Groups and Feature Profiles
- Deploying Device Configurations

Cisco SD-WAN Overlay Routing

- Overlay Routing Overview
- OMP Route Advertisements
- OMP Route Redistribution and Network Segmentation
- Configuring and Verifying Overlay Routing

SD-WAN Policies

- Policy Overview and Framework
- vSmart Policy Operation and Construction
- Forwarding and QoS Overview
- Application Quality of Experience Overview
- Deploying Direct Internet Access

Labs

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

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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