

## Cisco SD-WAN Operation and Deployment

Duration: 2 Days    Course Code: SDWFND    Version: 2.0

### 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. 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 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 components and architecture of the Cisco SD-WAN solution.
- Deploy WAN Edge routers.
- Create templates to aide in the deployment and operation of the secure extensible network.
- Configure and verify Cisco SW-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

### Secure Extensible Network Deployment

- Secure Control Plane Operation
- Secure Control Plane Deployment
- Secure Data Plane Operation
- Cloud Deployments and Redundancy

### SD-WAN Configuration Management

- Templates Overview
- Feature Templates
- Device Templates
- Attaching Devices to Templates

### 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
- Smart Policy Operation and Construction
- Forwarding and QoS Overview
- Configuring and Monitoring QoS Forwarding

### Labs

- 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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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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