

## Cisco SD-WAN Operation and Deployment

**Duration: 2 Days**    **Course Code: SDWFND**    **Version: 2.0**    **Delivery Method: Company Event**

### 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.**

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### 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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