

## Cisco Catalyst SD-WAN Operation and Deployment

Duration: 2 Days    Course Code: SDWFND    Version: 3.0

### Overview:

#### Understand foundational concepts, business drivers, and an architectural vision of Cisco Catalyst SD-WAN.

The Cisco Catalyst SD-WAN Operation and Deployment (SDWFND) training provides foundational concepts, business drivers, and an architectural vision of Cisco Catalyst software-defined wide area network (SD-WAN), demonstrating how its core principles enable agile, secure, and cloud-ready WAN solutions to meet modern business demands.

**This training also earns you 14 Continuing Education (CE) credits toward recertification.**

### Target Audience:

- Network Engineers
- Network Architects
- Network Designers
- Network Administrators
- Solutions Architects
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators/Partners
- Security Engineers
- Network Managers
- Program Managers
- Project Managers
- IT Directors/Chief Information Officers (CIOs)

### Objectives:

- After completing this course, you should be able to:
- Discuss why traditional WANs struggle with modern demands and explain how Cisco Catalyst SD-WAN's architecture and core principles address those challenges
- Identify the main Cisco Catalyst SD-WAN components and explain how their roles and interactions support the overall solution
- Explain and perform secure controller and WAN Edge onboarding using zero-trust principles (ZTP) and secure control channels
- Implement and verify secure data plan operations using IPsec, segmentation, bidirectional forwarding detection (BFD)-based path monitoring, app visibility, and site redundancy
- Configure and verify Overlay Management Protocol (OMP)-based overlay routing, including route advertisement, redistribution, and network segmentation
- Manage Cisco Catalyst SD-WAN device configurations using Configuration Groups, Feature Profiles, Device Templates, and automation workflows for scalable, consistent deployment
- Navigate SD-WAN Manager monitoring dashboards and interpret key metrics and alarms for troubleshooting and operational visibility
- Design and apply centralized and localized policies, including Quality of Service (QoS) and Application Quality of Experience (AppQoE), to control and prioritize traffic across the SD-WAN fabric
- Implement Direct Internet Access (DIA) and cloud optimization features to enhance application experience, traffic flow, and branch security in Cisco Catalyst SD-WAN

### Prerequisites:

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Familiarity with traditional WAN technologies such as MPLS and internet circuits

### Testing and Certification

- N/A

- Working knowledge of Cisco IOS networking and concepts, including Open Shortest Path First (OSPF) routing and IPsec tunnels
  - Basic understanding of network security concepts and familiarity with operating system interfaces (CLI/GUI) for device interaction
- These skills can be found in the following Cisco Learning Offerings:
- CCNA - Implementing and Administering Cisco Solutions
  - ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

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### Follow-on-Courses:

- ENSDWI - Implementing Cisco SD-WAN Solutions

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### Content:

#### OUTLINE

- SD-WAN Evolution and Core Concepts
- Cisco Catalyst SD-WAN Components and Roles
- Initial SD-WAN Deployment
- Secure Data Plan and Segmentation
- Configuration Management and Automation
- Overlay Routing and Integration
- Cisco Catalyst SD-WAN Policies
- Direct Internet Access and Cloud Optimization

#### LAB OUTLINE

- Access and Monitor Cisco Catalyst SD-WAN Components
- Deploy and Verify Cisco Catalyst SD-WAN Edge Routers
- Deploy Cisco Catalyst SD-WAN Edge Configuration
- Implement Cisco Catalyst SD-WAN Overlay Routing
- Deploy Cisco Catalyst SD-WAN Policies

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### Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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