

## 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.**

#### 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:

- 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

### Testing and Certification

- N/A

attending this training are:

- Familiarity with traditional WAN technologies such as MPLS and internet circuits
  - 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 Head Office Tel.: +974 40316639

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