

Implementing Cisco SD-WAN Solutions (ENSDWI) v3.0

Duration 5 Days

COURSE DESCRIPTION

The Implementing Cisco SD-WAN Solutions (ENSDWI) training helps you design, deploy, configure, and manage the Cisco Software-Defined WAN (SD-WAN) solution in a large-scale network, including how to migrate from legacy WAN to Cisco SD-WAN. You will learn best practices for configuring routing protocols in the data center and the branch, and how to implement advanced control, data, and application-aware policies. This training also covers Cisco SD-WAN deployment and migration options, placement of controllers, how to deploy WAN Edge devices, multicast and quality of service (QoS), how to configure Direct Internet Access (DIA) breakout, and how to deploy a Multi-Region Cisco SD-WAN fabric. You will also learn about the various Application Quality of Experience (AppQoE) traffic optimization capabilities. Finally, the training looks at the different Cisco SD-WAN security options available.

COURSE OUTLINE

- Section 1: Examining the Cisco SD-WAN Architecture
- Section 2: Examining Cisco SD-WAN Deployment Options
- Section 3: Deploying WAN Edge Devices
- Section 4: Managing Device Configuration
- Section 5: Exploring Redundancy, High Availability, and Scalability
- Section 6: Enabling Service-Side and Transport-Side Routing
- Section 7: Understanding Cisco SD-WAN Policy Configuration Basics
- Section 8: Defining Advanced Control Policies
- Section 9: Defining Advanced Data Policies
- Section 10: Implementing Application Quality of Experience
- Section 11: Implementing AAR
- Section 12: Examining DIA and Cisco Cloud OnRamp
- Section 13: Exploring Cisco SD-WAN Security
- Section 14: Designing and Migrating to Cisco SD-WAN
- Section 15: Performing Cisco SD-WAN Network Management and Troubleshooting
- Section 16: Examining Cisco SD-WAN Multicast Support

PREREQUISITES

Before taking this offering, you should have:

- Knowledge of Software-Defined Networking (SDN) concepts as applied to large scale live network deployments
- Strong understanding of enterprise WAN 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)

WHO SHOULD ATTEND

- Individuals seeking the Cisco CCNP Enterprise certification or the Cisco Certified Specialist—Enterprise SD-WAN Implementation
- Pre- and post-sales network engineers involved in the installation, support, and troubleshooting of a Cisco SD-WAN overlay network