Implementing Cisco SD-WAN Solutions v3 (ENSDWI)

Price	Duration	Delivery Methods
$3,295.00	5 Daytime Classes or 10 Evening Classes	Virtual, Private Group,

CAREER SKILLS+™

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. This course helps you prepare to take the Implementing Cisco SD-WAN Solutions (300-415 ENSDWI) exam which is part of the CCNP® Enterprise certification.

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

Course Prerequisites

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)

Course Objectives

Describe the Cisco SD-WAN solution and how modes of operation differ in traditional WAN versus SD-WAN
Describe options for Cisco SD-WAN cloud and on-premises deployment
Explain how to deploy WAN Edge devices
Review the Zero-Touch Provisioning (ZTP) process and examine technical specifics for on-premises deployment
Review the device configuration template and describe new features of device configuration templates
Describe options for providing scalability, high availability, and redundancy
Explain how dynamic routing protocols are deployed in an SD-WAN environment, on the service side and transport side
Describe Cisco SD-WAN policy concepts, which includes how policies are defined, attached, distributed, and applied
Define and implement advanced control policies, such as policies for custom topologies and service insertion
Identify and implement advanced data policies, such as policies for traffic engineering and QoS
Define and implement an Application-Aware Routing (AAR) policy
Implement Direct Internet Access (DIA) and Cisco SD-WAN Cloud OnRamp options
Describe Cisco SD-WAN security components and integration
Describe how to design pure and hybrid Cisco SD-WAN solutions, as well as how to perform a migration to Cisco SD-WAN
Describe Cisco SD-WAN Day-2 operations, such as monitoring, reporting, logging, troubleshooting, and upgrading

Describe Cisco SD-WAN support for multicast

Agenda

Examining the Cisco SD WAN Architecture
Examining Cisco SD-WAN Deployment Options
Deploying WAN Edge Devices
Onboarding WAN Edge Devices with ZTP and PnP
Using Device Configuration Templates
Exploring Redundancy, High Availability, and Scalability
Enabling Service-Side and Transport-Side Routing
Understanding Cisco SD-WAN Policy Configuration Basics
Defining Advanced Control Policies
Implementing AAR
Examining Direct Internet Access and Cloud Deployment Options
Exploring Cisco SD-WAN Security
Designing and Migrating to Cisco SD-WAN
Performing Cisco SD-WAN Network Management and Troubleshooting
Examining Cisco SD-WAN Multicast Support