

CISCO CERTIFIED NETWORK PROFESSIONAL ENTERPRISE SD-WAN

Implementing Cisco SD-WAN Solutions (ENSDWI)

Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 98% success
- Course specific thinQtank® Learning publications to promote fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT "TEACH THE TEST" We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by CCIE expert instructors

Course Duration

- Five days of instructor-led learning
- 60% lecture, 40% hands-on labs

Prerequisites

You should have the following knowledge and skills before attending this course:

- 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 TLS and IP Security (IPSec)

Target Audience

- System installers
- System integrators
- System administrators
- Network administrators
- Solutions designers

Exam Information

- 300-415 – Implementing Cisco SD-WAN Solutions (ENSDWI)

Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

Course Overview

thinQtank® Learning is offering a unique five-day training camp comprised of five days of instructor-led learning for Implementing Cisco SD-WAN Solutions v2.0. As with all our Cisco Training Experiences – exams are delivered in the classroom.

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.

The Implementing Cisco SD-WAN Solutions (ENSDWI) v2.0 course gives you training on how to design, deploy, configure, and manage your Cisco® Software-Defined WAN (SD-WAN) solution in a large-scale live network, including how to migrate from legacy WAN to SD-WAN.

Course Objectives

This course will help students learn to use Cisco SD-WAN to:

- 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 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

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Course Modules

1	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Overlay Network ▪ Examining Cisco SD-WAN Architecture
2	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Deployment ▪ Examining Cisco SD-WAN Deployment Options ▪ Deploying Edge Devices ▪ Deploying Edge Devices with Zero-Touch Provisioning ▪ Using Device Configuration Templates ▪ Redundancy, High Availability, and Scalability
3	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Routing Options ▪ Using Dynamic Routing ▪ Providing Site Redundancy and High Availability ▪ Configuring Transport-Side Connectivity
4	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Policy Configuration ▪ Reviewing Cisco SD-WAN Policy ▪ Defining Advanced Control Policies ▪ Defining Advanced Data Policies ▪ Implementing Application-Aware Routing ▪ Implementing Internet Breakouts and Network Address Translation (NAT)
5	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Migration and Interoperability ▪ Examining Cisco SD-WAN Hybrid Scenarios ▪ Performing a Migration
6	<ul style="list-style-type: none"> ▪ Cisco SD-WAN Management and Operations ▪ Performing Day-2 Operations ▪ Performing Upgrades

Labs and Demonstrations

<ul style="list-style-type: none"> ▪ Deploying Cisco SD-WAN Controllers ▪ Adding a Branch Using Zero Touch Provisioning (ZTP) ▪ Deploying Devices Using Configuration Templates ▪ Configuring Controller Affinity ▪ Implementing Dynamic Routing Protocols on Service Side ▪ Implementing Transport Location (TLOC) Extensions ▪ Implementing Control Policies ▪ Implementing Data Policies ▪ Implementing Application-Aware Routing ▪ Implementing Internet Breakouts ▪ Migrating Branch Sites ▪ Performing an Upgrade

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thinQtank® Global, Inc. dba thinQtank® Learning P.O. Box 803215, Valencia, CA 91380 USA
Tel 855-TO-THINQ Fax 208-979-0668 www.thinqtanklearning.com

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