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BE EXPERT

**CORE NETWORKING
CLASSES**



Overview

**GET TRAINING
BY CERTIFIED
TRAINERS AND
INDUSTRY
EXPERTS**

TRAINING TYPE
ONLINE

COURSE DURATION
10DAYS

NO OF HOURS
2 HOURS/DAY

CERTIFICATE
CCNP SDWAN ENSDWI

SKILL LEVEL
INTERMEDIATE

STUDY MATERIAL
YES

BATCHES AVAILABLE
WEEKDAYS/WEEKENDS



Cisco

SD-WAN



**START YOUR
LEARNING
WITH CNC**



COURSE CONTENT

- 2.0 Controller Deployment
- 2.1 Describe controller cloud deployment
- 2.2 Describe Controller on-Prem Deployment
 - 2.2.a Hosting platform (KVM/Hypervisor)
 - 2.2.b Installing controllers
 - 2.2.c Scalability and redundancy
- 2.3 Configure and verify certificates and whitelisting
- 2.4 Troubleshoot control-plane connectivity between controllers
- 3.0 Router Deployment
- 3.1 Describe WAN Edge deployment
 - 3.1.a On-boarding
 - 3.1.b Orchestration with zero-touch provisioning/plug-and-play
 - 3.1.c Single/multi data center/regional hub deployments

IMPLEMENTING CISCO SD-WAN SOLUTIONS V1.0 (300-415)

- 3.2 Configure and verify SD-WAN data plane
 - 3.2.a Circuit termination/TLOC-extension
 - 3.2.b Underlay-overlay connectivity
- 3.3 Configure and verify OMP
- 3.4 Configure and verify TLOCs
- 3.5 Configure and verify CLI and vManage feature configuration templates
 - 3.5.a VRRP
 - 3.5.b OSPF
 - 3.5.c BGP



- 1.0 Architecture
- 1.1 Describe Cisco SD-WAN Architecture and Components
 - 1.1.a Orchestration plane (vBond, NAT)
 - 1.1.b Management plane (vManage)
 - 1.1.c Control plane (vSmart, OMP)
 - 1.1.d Data plane (vEdge)
 - 1.1.d (i) TLOC
 - 1.1.d (ii) IPsec
 - 1.1.d (iii) vRoute
 - 1.1.d (iv) BFD
- 1.2 Describe WAN Edge platform types, capabilities (vEdges, cEdges)

4.0 Policies

4.1 Configure and verify control policies

4.2 Configure and verify data policies

4.3 Configure and verify end-to-end segmentation

4.3.a VPN segmentation

4.3.b Topologies

4.4 Configure and verify SD-WAN application-aware routing

4.5 Configure and verify direct Internet access

15% 5.0 Security and Quality of Service

5.1 Configure and verify service insertion

5.2 Describe application-aware firewall

5.3 Configure and verify QoS treatment on WAN edge routers

5.3.a Scheduling

5.3.b Queuing

5.3.c Shaping

5.3.d Policing

10% 6.0 Management and Operations

6.1 Describe monitoring and reporting from vManage

6.2 Configure and verify monitoring and reporting

6.3 Describe REST API monitoring

6.4 Describe software upgrade from vManage

