



# The Catalyst SDWAN v20.15.1 (Updated) Master Class (Early Release Price)

This advanced scenario-based course covers all the topics in the Official Cisco ENSDWI exam and beyond. By the end of the course, participants will have the critical skills necessary to design, deploy and manage advanced Catalyst SD-WAN environments.

Buy \$599.00

Free Preview

## Course curriculum

### Course Introduction

- Your Instructor Terry Vinson - 2025 Q2 Update **FREE PREVIEW**
- Introducing SD-University's POC Network **FREE PREVIEW**

### Section 1: Managing SDWAN Devices via Configuration Groups

- Platform Changes in version 20.15.1
- Introducing SDWAN User Experience 2.0
- SD-University Overlay Design Plan - Overview
- Lab 1: Create Common Feature Profiles
- Lab 2: Create/Associate/Deploy - Dual Device Configuration Group for the DC Site
- Lab 3: Create/Associate/Deploy - Dual Device Configuration Group for the Main Campus Site
- Lab 4: Create/Associate/Deploy - Single Device Configuration Groups or DR, BR1 & BR2 Sites
- Lab 5: Create VPN10 Service Profile - Using Loopback 10 (Test in DR Site)
- Lab 6: Deploy VPN10 Service Profile - Using Loopback 10 in all Sites
- Lab 7: Deploy OSPF in VPN 10 inside Data Center and Main Campus
- Lab 8: Deploy OSPF in VPN 10, 20 & 30 inside DC/MC/DR Sites
- Lab 9: Deploy BGP in Branch-1 VPN 10, 20 & 30
- Lab 10: Deploy EIGRP in Branch-2 VPN 10, 20 & 30
- Lab 11: Deploy MPBGP VPNv4 Peering between DC and DR Sites for VPN 10, 20 & 30

### Section 2: Exploring the Catalyst SDWAN Control Plane

- Introduction
- Underlay vs Overlay Routing **FREE PREVIEW**
- Control Plane Connections
- Overlay Management Protocol (OMP)
- VPNs & Labels
- Exploring SDWAN Manager Control Plane Connections
- Exploring SDWAN Validator Control Plane Connections
- Exploring SDWAN Controller (vSmarts) Control Plane Connections
- Lab 12: Redistribution of OMP into Service Side Protocols VPN10, 20 & 30 in all Sites
- Lab 13: DC, DR and BR1 not advertising BGP Routes in VPN10, 20 & 30 to Controllers
- Lab 14: OMP - Send-Path-Limit & ECMP-Limit
- Lab 15: OMP - Send Backup Paths
- Lab 16: Manager-Connection-Preference
- Lab 17: Testing Manager-Connection-Preference
- Lab 18: Max Control Connections
- Lab 19: Max OMP Connections
- Lab 20: Controller Affinity
- Lab 21: Exploring OMP Route Exchange Between vSmarts/Controllers

### Section 3: Exploring the Catalyst SDWAN Data Plane

- Introduction
- TLOC OMP Route Type
- SDWAN Controller TLOC Advertisement Deep Dive
- Color Restrict via Configuration Group
- Explore IPsec Tunnels via the Catalyst Manager Packet Capture Feature
- The Impact of Public and Private TLOC Colors on IPsec Tunnel formation **FREE PREVIEW**
- TLOC Carrier
- Secure Data Plane Operations
- Tunnel Groups
- SDWAN Fabric and NAT
- Bidirectional Forwarding Detection (BFD)
- TLOC Extension

### Section 4: Introduction to SDWAN Policy Framework

- Introducing Cisco SDWAN Policy Constructs
- Cisco SDWAN Policy Architecture
- Cisco SDWAN Centralized Policy Configuration
- Cisco SDWAN Local Policy Configuration
- Cisco SDWAN Policy Domains

### Section 5: Centralized Control Policy Labs

- Introduction and Staging
- Lab 5-1: Create a Dual Homed Hub and Spoke Topology
- Lab 5-2: Copying & Customizing the Hub and Spoke Topology Policy
- Lab 5-3: Configure a Primary Hub (CE2) in the Dual Homed Architecture via TLOC Preference
- Lab 5-4: Traffic Engineering via Next Hop TLOC Modification & OMP Preference
- Lab 5-5: Implement Per VPN Topology (VPN10 Hub and Spoke, VPN20,30 Full Mesh)

### Introduction to Quality of Service Mechanisms

- QOS Fundamentals - Part 1

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#### About this course

- \$599.00
- 58 lessons
- 27 hours of video content

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