

Implementing Cisco Converged SDN Transport Solution (SPSDNTXP)

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The Implementing Converged SDN Transport Solutions (SPSDNTXP) v1.0 course introduces you to Software-Defined Networking (SDN)-ready architecture. This architecture evolves traditional Metro network design into an SDN-enabled programmable network capable of delivering all services (residential, business, 5G mobile backhauling, video, and IoT) on the premise of simplicity, full programmability, and cloud integration with guaranteed service level agreements (SLAs).

You will examine the evolution of service provider design principles such as Unified Multiprotocol Label Switching, Evolved Programmable Networks, and the Cisco® Compass Metro Fabric. Additionally, you'll explore and configure individual components of the design including segment routing and its supporting features.

How you'll benefit

This class will help you:

- Describe the Converged SDN Transport solution
- Describe the basic implementation of SDN component features
- Establish a foundation to take a deeper dive into SDN solutions

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Network architects
- Network engineers
- Network consulting engineers
- Customer support engineers

Prerequisites

To fully benefit from this course, you should have:

- Knowledge of general networking concepts
- Experience working with CLI-based network devices

Course Duration

4 days

Course Price

\$3,595.00 or 36 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

OUTLINE

Module 1: Converged SDN Transport Fundamentals

Module 2: Introducing Segment Routing

Module 3: Segment Routing Topology-Independent Loop-Free Alternative (TI-LFA) and Traffic Engineering (TE)

Module 4: Multidomain SR-TE

Module 5: VPN and Services Overview

Module 6: EVPN Layer 2 Basics

Module 7: Layer 3 VPNs

Module 8: Operation Simplification and Automation Foundation

Module 9: Network Orchestration Using NSO

Module 10: Network Automation Using Cisco WAE

LAB OUTLINE

Lab 1: Configure and Verify Segment Routing

Lab 2: Configure and Verify SR TI-LFA

Lab 3: Configure and Verify SR-TE

Lab 4: Configure and Verify Multidomain SR-TE

Lab 5: Configure and Verify Basic EVPN

Lab 6: Configure and Verify Layer 3 VPN

Lab 7: Cisco NSO Overview

Lab 8: Cisco WAE Overview