Implementing Cisco Converged SDN Transport Solution (SPSDNTXP)

ID SPSDNTXP   **Price** US $ 3,600.—(excl. tax)   **Duration** 4 days

This is a Cisco Learning Services course and is delivered directly by Cisco.

Course Overview

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.

This course 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

Who should attend

- 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 Objectives

After taking this course, you should be able to:

- Introduce and examine the evolution of service provider design principles
- Introduce and review the basic building blocks of segment routing and its place within the service provider infrastructure
- Implement various technologies within segment routing to provide additional availability or to meet the Service Level Agreements (SLAs)
- Identify and deploy an SDN controller to support a multidomain segment routing for traffic engineering
- (SR-TE) network
- Describe different VPNs and services
- Explain how to configure and verify Ethernet VPN (EVPN) Native and EVPN Virtual Private Wire Service (VPWS)
- Describe how to configure and verify the Layer 3 VPN
- Explain network operation simplification and automation foundation
- Describe how to automate service provider network configurations with Cisco Network Services Orchestrator (NSO)
- Describe how to automate the service provider WAN with Cisco WAN Automation Engine (WAE)
- Explore different converged SDN transport use cases

Detailed Course Outline

- Converged SDN Transport Fundamentals
- Introducing Segment Routing
- Segment Routing Topology-Independent Loop-Free Alternative (TI-LFA) and Traffic Engineering (TE)
- Multidomain SR-TE
- VPN and Services Overview
- EVPN Layer 2 Basics
- Layer 3 VPNs
- Operation Simplification and Automation Foundation

- Network Orchestration Using NSO
- Network Automation Using Cisco WAE

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