IMPLEMENTING AND OPERATING CISCO SERVICE PROVIDER NETWORK CORE TECHNOLOGIES (SPCOR) V1.1

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The Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) v1.1 course teaches you how to configure, verify, troubleshoot, and optimize next-generation, Service Provider IP network infrastructures. It provides a deep dive into Service Provider technologies including core architecture, services, networking, automation, quality of services, security, and network assurance.

How you'll benefit

This class will help you:

- Configure, verify, troubleshoot, and optimize next-generation, Service Provider IP network infrastructures
- Deepen your understanding of Service Provider technologies including core architecture, services, networking, automation, quality of services, security, and network assurance
- Prepare to take the 350-501 Implementing and Operating Cisco® Service Provider Network Core Technologies (SPCOR)
- Earn 64 CE credits toward recertification

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 Engineers
- Network Administrators
- Network Managers
- Network Designers
- Systems Engineers
- Project Managers

Course Duration
5 days

Course Price
$4,295.00 or 43 CLCs

Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

OUTLINE

Module 1: Describing Service Provider Network Architectures

Module 2: Describing Cisco IOS Software Architectures

Module 3: Implementing OSPF

Module 4: Implementing IS-IS

Module 5: Implementing BGP

Module 6: Implementing Route Maps and Routing Protocol for LLN [Low-Power and Lossy Networks] (RPL)

Module 7: Transitioning to IPv6

Module 8: Implementing High Availability in Networking

Module 9: Implementing MPLS

Module 10: Implementing Cisco MPLS Traffic Engineering

Module 11: Describing Segment Routing

Module 12: Describing VPN Services

Module 13: Configuring L2VPN Services

Module 14: Configuring L3VPN Services

Module 15: Implementing Multicast

Module 16: Describing QoS Architecture

Module 17: Implementing QoS

Module 18: Implementing Control Plane Security

Module 19: Implementing Management Plane Security

Module 20: Implementing Data Plane Security

Module 21: Introducing Network Programmability

Module 22: Implementing Automation and Assurance

Module 23: Introducing Cisco NSO

Module 24: Implementing Virtualization in Service Provider Environments

LAB OUTLINE

- **Lab 1: Deploy Cisco IOS XR and IOS XE Basic Device Configuration**
- **Lab 2: Implement OSPF Routing**
- **Lab 3: Implement Integrated IS-IS Routing**
- **Lab 4: Implement Basic BGP Routing**
- **Lab 5: Filter BGP Prefixes Using RPL**
- **Lab 6: Implement MPLS in the Service Provider Core**
- **Lab 7: Implement Cisco MPLS Traffic Engineering (TE)**
- **Lab 8: Implement Segment Routing**
- **Lab 9: Implement Ethernet over MPLS (EoMPLS)**
- **Lab 10: Implement MPLS L3VPN**
- **Lab 11: Implement BGP Security**
- **Lab 12: Implement Remotely Triggered Black Hole (RTBH) Filtering**