

KOENIG SOLUTIONS • COURSE OUTLINE

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) 1.2

Learn to implement and operate service provider core networks across routing, MPLS, VPN services, QoS, security and automation.

40 Hours

DURATION

24

MODULES

COURSE OVERVIEW

The Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) training expands your knowledge and skills of service provider core networks. You will gain the theoretical and practical knowledge needed to implement and operate service provider networks using technologies such as core architecture, services, networking, automation, quality of service (QoS), security, and network assurance. This training prepares you for the 350-501 SPCOR v1.0 exam. If passed, you earn the Cisco Certified Specialist – Service Provider Core certification and satisfy the core exam requirement for the Cisco Certified Network Professional (CCNP) Service Provider and Cisco Certified Internetwork Expert (CCIE) Service Provider certifications.

Who Should Attend

Network Administrators

Network Engineers

Network Managers

System Engineers

Project Managers

Network Designers

PREREQUISITES

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Intermediate knowledge of Cisco IOS or IOS XE
- Familiarity with Cisco IOS or IOS XE and Cisco IOS XR software configuration
- Knowledge of IPv4 and IPv6 transmission control protocol (TCP)/IP networking
- Intermediate knowledge of IP routing protocols
- Understanding of MPLS technologies
- Familiarity with VPN technologies
- These skills can be found in the following Cisco Learning Offerings: Implementing and Administering Cisco Solutions (CCNA)
- These skills can be found in the following Cisco Learning Offerings: Understanding Cisco Service Provided Network Foundations (SPFNDU)

COURSE SYLLABUS

24 Modules

01

Describing Service Provider Network Architectures

02

Describing Cisco IOS Software Architectures

03

Implementing OSPF for Cisco IOS XR

04

Implementing IS-IS for Cisco IOS XR

05

Implementing BGP in Service Provider Network

06

Implementing Route Maps and RPL

07

Transitioning to IPv6 for Cisco IOS XR and IOS XE

08

Implementing High Availability in Networking

09

Implementing MPLS for Cisco IOS XR

10

Implementing Cisco MPLS Traffic Engineering

11

Describing Segment Routing

12

Describing VPN Services

13

Configuring L2VPN Services

14

Configuring L3VPN Services

15

Implementing Multicast for Cisco IOS XR

16

Describing QoS Architecture

17

Implementing QoS for Cisco IOS XR

18

Implementing Control Plane Security

19

Implementing Management Plane Security

20

Implementing Data Plane Security

21

Introducing Network Programmability

22

Implementing Automation and Assurance

23

Introducing Cisco NSO

24

Implementing Virtualization in Service Provider Environment

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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