

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

ID SPCOR Price 4,795.— €(excl. tax) Duration 5 days

## Course Overview

The **Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)** 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 course 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

## What to Expect in the Exam

- 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) exam

## Who should attend

- Network administrators
- Network engineers
- Network managers
- System engineers

- Project managers
- Network designers

## This course is part of the following Certifications

Cisco Certified Network Professional Service Provider (CCNP SERVICE PROVIDER)

## Prerequisites

Before taking this course, you should have the following knowledge and skills:

- 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 TCP/IP networking
- Intermediate knowledge of IP routing protocols
- Understanding of MPLS technologies
- Familiarity with VPN technologies

## Course Objectives

After taking this course, you should be able to:

- Explain the Cisco Unified Intelligence Center including the benefits and features of the system and describe the high-level architecture of Cisco Unified Intelligence Center in the UCCE environment
- Understand the Cisco Unified Intelligence Center administration console to perform Cisco Unified Intelligence Center administrative, maintenance and provisioning functions
- Discuss the functional attributes of the Cisco Unified Intelligence Center
- Customize Cisco Unified Intelligence Center Reports and Views

## Detailed Course Outline

- Describing Service Provider Network Architectures

- Describing Cisco IOS Software Architectures
- Implementing OSPF
- Implementing IS-IS
- Implementing BGP
- Implementing Route Maps and Routing Protocol for LLN [Low-Power and Lossy Networks] (RPL)
- Transitioning to IPv6
- Implementing High Availability in Networking
- Implementing MPLS
- Implementing Cisco MPLS Traffic Engineering
- Describing Segment Routing
- Describing VPN Services
- Configuring L2VPN Services
- Configuring L3VPN Services
- Implementing Multicast
- Describing QoS Architecture
- Implementing QoS
- Implementing Control Plane Security
- Implementing Management Plane Security
- Implementing Data Plane Security
- Introducing Network Programmability
- Implementing Automation and Assurance
- Introducing Cisco NSO
- Implementing Virtualization in Service Provider Environments

# About Fast Lane



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- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobile Learning

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### Germany

**Fast Lane Institute for Knowledge  
Transfer GmbH**  
Tel. +49 40 25334610  
[info@flane.de](mailto:info@flane.de) / [www.flane.de](http://www.flane.de)

### Austria

**ITLS GmbH**  
(Partner of Fast Lane)  
Tel. +43 1 6000 8800  
[info@itls.at](mailto:info@itls.at) / [www.itls.at](http://www.itls.at)

### Switzerland

**Fast Lane Institute for Knowledge  
Transfer (Switzerland) AG**  
Tel. +41 44 8325080  
[info@flane.ch](mailto:info@flane.ch) / [www.flane.ch](http://www.flane.ch)