

# Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI)

**Duration:** 40.00 hours (5 days)

**32.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The Implementing Cisco Service Provider Advanced Routing Solutions (SPRI) 5-day course teaches you theories and practices to integrate advanced routing technologies including routing protocols, multicast routing, policy language, Multiprotocol Label Switching (MPLS), and segment routing, expanding your knowledge and skills in service provider core networks. This course prepares you for the 300-510 Implementing Cisco® Service Provider Advanced Routing Solutions (SPRI) exam. The course qualifies for 40 Cisco Continuing Education credits (CE) towards recertification. This course will help you:

- Gain the high-demand skills to maintain and operate advanced technologies related to Service Provider core networks
- Increase your knowledge and skills for implementing Service Provider core advanced technologies through hands-on application and practical instruction
- Prepare to take the 300-510 SPRI exam

## About This Course

The Implementing Cisco Service Provider Advanced Routing Solutions (SPRI) 5-day course teaches you theories and practices to integrate advanced routing technologies including routing protocols, multicast routing, policy language, Multiprotocol Label Switching (MPLS), and segment routing, expanding your knowledge and skills in service provider core networks. This course prepares you for the 300-510 Implementing Cisco® Service Provider Advanced Routing Solutions (SPRI) exam. The course qualifies for 40 Cisco Continuing Education credits (CE) towards recertification.

This course will help you:

Gain the high-demand skills to maintain and operate advanced technologies related to Service Provider core networks

Increase your knowledge and skills for implementing Service Provider core advanced technologies through hands-on application and practical instruction

Prepare to take the 300-510 SPRI exam

## Who Should Attend

This course is for professionals who need knowledge about implementing various Service Provider core technologies and advanced routing technologies.

Network administrators

System engineers

Project managers

Network designers

# Learning Outcomes

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**Upon successful completion of this course, participants will be able to:**

After taking this course, you should be able to:

Describe the main characteristics of routing protocols that are used in Service provider environments

Implement advanced features of multiarea Open Shortest Path First (OSPFv2) running in Service Provider networks

Implement advanced features of multilevel Intermediate System to Intermediate System (ISIS) running in Service Provider networks

Configure route redistribution

Configure Border Gateway Protocol (BGP) in order to successfully connect the Service Provider network to the customer or upstream Service Provider

Configure BGP scalability in Service Provider networks

Implement BGP security options

Implement advanced features in order to improve convergence in BGP networks

Troubleshoot OSPF, ISIS, and BGP

Implement and verify MPLS

Implement and troubleshoot MPLS traffic engineering

Implement and verify segment routing technology within an interior gateway protocol

Describe how traffic engineering is used in segment routing networks

Implement IPv6 tunneling mechanisms

Describe and compare core multicast concepts

Implement and verifying the PIM-SM protocol

Implement enhanced Protocol-Independent Multicast - Sparse Mode (PIM-SM) features

Implement Multicast Source Discovery Protocol (MSDP) in the interdomain environment

Implement mechanisms for dynamic Rendezvous Point (RP) distribution

## Additional Course Details

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Nexus Humans Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

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## **Q: What delivery options are available for Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI)?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
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## **Q: How many CPD hours does this course provide?**

The 5-day Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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## **Q: What is the duration of the Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI) training?**

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI)?**

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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## Q: Why choose Nexus Human for Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco Implementing Cisco Service Provider Advanced Routing Solutions v1.0 (SPRI) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

# Nexus Human

## Professional Training & Development

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