SPFNDU
Understanding Cisco Service Provider Network Foundations

The training is a good preparation for entry-level tasks in the demanding area of service provider environments and also for courses within the CCNP Service Provider certification. However, it is not intended for exam preparation.

The course is designed to provide you with the foundational knowledge for the suite of Cisco® CCNP® Service Provider courses. Through a combination of lessons and practice, you will learn service provider architectures, protocols, software and hardware platforms, and solutions. While this course does not lead directly to a certification exam, it covers foundational knowledge that is critical for success in the Service Provider Technology track.

Course Contents
• Describe network architectures, devices, and software used by service providers
• Describe the various Internet governance organizations, their roles and tools available for governance information verification
• Configure Cisco IOS and Cisco IOS XE routers
• Describe Cisco IOS XR software, perform initial configuration and explain platform daily tasks
• Describe various access and core technologies used by service providers
• Describe various major switching technologies used by service providers
• Describe major overlay technologies, their usage and configure VxLAN
• Describe various major routing protocols used by service providers
• Configure Layer 3 services used by service providers
• Describe MPLS, components, protocols and MPLS usage
• Describe usage of various services used and maintained by service providers
• Introduce Linux networking, BASH scripting and their usage within Cisco IOS XR software

Target Group
• Network administrators
• Network technicians
• Network managers
• System managers
• Project manager
• Network designer

Prerequisites
• Knowledge of IPv4 and IPv6 TCP / IP networks
• Familiarity with the typical service provider environment
• Basic knowledge of network devices and their roles

Course Target
The objective of this course is to prepare students for the Cisco CCNP service provider courses by providing them with knowledge of architectures, protocols, software and hardware platforms and solutions in the service provider field

Processing time
approx. 30 hours

Status 07/06/2025

This Course in the Web
You can find the up-to-date information and options for ordering under the following link:
www.experteach-training.com/go/**SPFN**

Reservation
On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates
To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!
We can precisely customize this course to your project and the corresponding requirements.

Cisco Digital Learning
This course is available in the Cisco Digital Learning Library. These recently developed, multi-modal training events include HD videos moderated by lecturers with stored searchable text and subtitles, as well as a exercises, labs, and explanatory text and graphics. We provide this offer to you via our myExperTeach learning portal. Effective of the activation of the account, access to the courses will be granted for a duration of 6 months. In the case of packet solutions (Cisco Digital Learning Subscriptions), this time period will amount to 12 months.

Cisco Digital Learning	Prices, excl. of V.A.T.
Activation for 6 months	€ 800

Training		Prices, excl. of V.A.T.
Classes in Germany	5 Days	€ 4,795
Online Training	5 Days	€ 4,795

Date/course venue — Course language English 🇬🇧

21/07-25/07/25 ON Online	22/09-26/09/25 ON Online
11/08-15/08/25 ON Online	13/10-17/10/25 ON Online
18/08-22/08/25 ON Online	13/10-17/10/25 ON Online
15/09-19/09/25 ON Online	27/10-31/10/25 ON Online

Date/course venue — Course language German 🇩🇪

25/08-29/08/25 ITY Frankfurt	16/02-20/02/26 ITY Frankfurt
25/08-29/08/25 ITY Online	16/02-20/02/26 ITY Online

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ExperTeach

Our Training Offer for You:

Classroom Training
The live training experience in our training centers or on your premises on-site.

Online Training
Attend your course in online mode – without travel and accommodation expenses and effort.

Hybrid Training
Classroom & online in one course – choose how you wish to participate in your training event.

In-house Training
We create your customized training concepts for your project.

Guaranteed Course Dates
ExperTeach guaranteed course dates allow for secure and reliable planning.

Awards Won by ExperTeach

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