

Understanding Cisco Service Provider Network Foundations (SPFNDU) 1.1

Description

The **Understanding Cisco Service Provider Network Foundations (SPFNDU)** training is designed to provide you with the foundational knowledge for the suite of Cisco® Certified Network Professional (CCNP®) Service Provider trainings. The training expands what you learned from the Cisco CCNA® training with a focus on theoretical and practical knowledge needed for the service provider environment. You will learn about architectures, protocols, software and hardware platforms, and solutions within the service provider realm.

Duration: 40 HRS

Prerequisite

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

- Knowledge of IPv4 and IPv6 Transmission Control Protocol/Internet Protocol (TCP/IP) networking
- Familiarity with a typical service provider environment
- Basic knowledge about networking devices and their roles

These skills can be found in the following Cisco Learning Offering:

- Implementing and Administering Cisco Solutions (CCNA)

Outline

1. Introducing Service Provider Architectures
2. Describing Internet Governance Organizations
3. Configuring the Cisco IOS and Cisco IOS XE Router
4. Configuring Cisco IOS XR Router

5. Introducing Access and Core Technologies in Service Provider Environment
6. Introducing Routing Technologies in Service Provider Environment
7. Describing MPLS
8. Implementing Layer 3 Services
9. Introducing Switching Technologies in the Service Provider Environment
10. Introducing Overlay Technologies
11. Implementing Service Provider Services
12. Introducing Programmability on Cisco IOS XR Routers