

Understanding Cisco Service Provider Network Foundations (CPLL-SPFNDU)

Duration: 180 days

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.

This training earns you 30 Continuing Education (CE) credits towards recertification.

Skills You'll Learn

- To configure the Cisco Internetwork Operating System (Cisco IOS) and Cisco IOS XE routers
- To configure Layer 3 services used by service providers
- To describe Multiprotocol Label Switching (MPLS) and its components, protocols, and usage

Learning Path Objectives

- 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 Internetwork Operating System (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 and their usage, and configure Virtual Extensible LAN (VxLAN)
- Describe various major routing protocols used by service providers
- Configure Layer 3 services used by service providers
- Describe multiprotocol label switching (MPLS), components, protocols, and MPLS usage
- Describe usage of various services used and maintained by service providers
- Introduce Linux networking, Bourne-Again SHell (BASH) scripting, and their usage within Cisco IOS XR software