

Deploying Cisco Service Provider Network Routing (SPROUTE)

Duration 5 Days

COURSE CONTENT

This Instructor Lead Training course is #1 of 4. It will prepare students for the SPROUTE exam required for the new CCNP-SP Certification. This certification is designed to prepare students to work at the Professional level in a Service Provider environment. The SPROUTE course is designed to provide service provider professionals with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs. The goal is to train professionals to dramatically increase the number of routers and sites using these techniques instead of redesigning the network when additional sites or wiring configurations are added. The SPROUTE training reinforces the instruction by providing students with hands-on labs to ensure they thoroughly understand how to implement advanced routing within their networks. The course also includes classroom activities with remote labs that are useful to gain practical skills on deploying Cisco IOS / IOS XE and Cisco IOS XR features to operate and support service provider network.

COURSE OBJECTIVES

The goal of the course is to train service provider network professionals on the techniques to plan, implement, and monitor a scalable IP routing.

COURSE OUTLINE

Module 1: Service Provider Routing

- Lesson 1-1: Understanding Service Provider Routing Protocols

Module 2: Implement OSPF in the Service Provider Network

- Lesson 2-1: Introducing OSPF Routing
- Lesson 2-2: OSPF Operation
- Lesson 2-3: Implementing OSPF Routing
- Lab 2-1: Implementing OSPF Routing
- Lesson 2-4: Implementing OSPF Special Area Types
- Lab 2-2: Implementing OSPF Special Area Types

Module 3: Com Implement Integrated IS-IS in the Service Provider Network

- Lesson 3-1: Introducing IS-IS Routing

- Lesson 3-2: Implementing integrated IS-IS routing
- Lesson 3-1: Implementing integrated IS-IS routing

Module 4: Implement BGP in the Service Provider Network

- Lesson 4-1: Introducing BGP Routing
- Lesson 4-2: Implementing Basic BGP routing
- Lab 4-1: Implementing Basic BGP routing

Module 5: Routing Protocol Tools and Route Manipulation

- Lesson 5-1: Introducing Routing Protocol Tools
- Lesson 5-2: Implementing Route Redistribution
- Lab 5-1: Implementing Route Redistribution
- Lesson 5-3: Influencing BGP Route Selection
- Lab 5-2: Influencing BGP Route Selection

WHO SHOULD ATTEND

- Channel Partner / Reseller
- Customer
- Employee

PREREQUISITES

- CCNA-SP