

## **Deploying Cisco Service Provider Network Routing (SPROUTE) 1.2 (CS-SPROUTE-5DAYS)**

**Modality: Virtual Classroom**

**Duration: 5 Days**

**CLC: 38 Units**

### **About this Course:**

This SPROUTE course is one of the components of the CCNP SP Curriculum and is a 5-day course targeting IT Professionals and IT Service Providers. On average, a Cisco System Network Security Engineer earns \$91,175 annually. This course majorly focuses on helping professionals learn the key concepts of Advanced Routing on LAN & WAN-Connected Cisco Routers. The students get to attain the key information and skills for implementing scalability and prepares them for the Cisco CCNP SP Exam and Certification.

The Deploying Cisco Service Provider Network Routing (SPROUTE) v1.2 helps professionals learn the art of addressing designing and deploying concerns by increasing router support and configuration settings. This unique training program helps students develop conceptual knowledge and understanding of configuring and implementing advanced routing networks. This course encompasses a combination of remote labs and theoretical classes to help professionals nurture practical routing configuration skills and polish the skills of deploying Cisco IOS XR and Cisco IOS XE Features for supporting and operating service provider networks.

### **Course Objectives:**

The core objective of this course is to help professionals gain a better understanding and conceptual knowledge of the following key elements:

- Understanding the Role of a Support Agent
- Identifying the Role, Responsibilities, and Priorities of a Support Agent
- Augmenting Support Skills by Active Role Integration
- Required Performance Skills Identification for a Support Agent
- Support Agents Interaction and Understanding Customer Behavior
- Examining the Impact of Communication Styles & Cultural Dimensions on Behavior
- Understanding Time-Viewing Styles of Different Cultures
- IT Support Management Fundamentals and Essentials

### **Audience:**

This course is tailored for the following group of professionals and interested candidates:

- Customers and Employers
- Channel Partner and Reseller

## Prerequisite:

Professionals planning to enroll in the Deploying Cisco Service Provider Network Routing (SPROUTE) 1.2 (CS-SPROUTE-5DAYS) course are recommended to have knowledge of the following skills:

- Fundamental Knowledge of Cisco SPNGN 1 and Cisco SPNGN 2

## Course Outline:

### Module 1: Service Provider Routing

- Lesson 1: Understanding Service Provider Routing Protocols

### Module 2: Implement OSPF in the Service Provider Network

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

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

- Lesson 1: Introducing IS-IS Routing
- Lesson 2: Implementing Integrated IS-IS Routing

### Module 4: Implement BGP in the Service Provider Network

- Lesson 1: Enterprise Connectivity to Service Providers
- Lesson 2: Introducing BGP Routing
- Lesson 3: Implementing Basic BGP Routing

### Module 5: Routing Protocol Tools and Route Manipulation

- Lesson 1: Introducing Routing Protocol Tools
- Lesson 2: Introducing Route Maps and Routing Policy Language
- Lesson 3: Implementing Route Redistribution
- Lesson 4: Influencing BGP Route Selection