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IMPLEMENTING CISCO SERVICE PROVIDER ADVANCED ROUTING SOLUTIONS (SPRI) V1.1

IMPLEMENTING CISCO SERVICE PROVIDER ADVANCED ROUTING SOLUTIONS (SPRI) V1.1

The Implementing Cisco Service Provider Advanced Routing Solutions (SPRI) course teaches you theories and practices to integrate advanced routing technologies including routing protocols, multicast routing, policy language, Multiprotocol Label Switching (MPLS), and segment routing, expanding your knowledge and skills in service provider core networks.

How you'll benefit

This class will help you:

- Gain the high-demand skills to maintain and operate advanced technologies related to Service Provider core networks
- Increase your knowledge and skills for implementing Service Provider core advanced technologies though hands-on application and practical instruction
- Earn 40 CE credits toward recertification
- Prepare to take the 300-510 SPRI exam

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Network Engineers
- Network Administrators
- Project Managers
- Network Designers

Course Duration
5 days
Course Price
$4,295.00 or 43 CLCs
Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

OUTLINE

Module 1: Implementing and Verifying Open Shortest Path First Multiarea Networks

Module 2: Implementing and Verifying Intermediate System to Intermediate System Multilevel Networks

Module 3: Introducing Routing Protocol Tools, Route Maps, and Routing Policy Language

Module 4: Implementing Route Redistribution

Module 5: Influencing Border Gateway Protocol Route Selection

Module 6: Scaling BGP in Service Provider Networks

Module 7: Securing BGP in Service Provider Networks

Module 8: Improving BGP Convergence and Implementing Advanced Operations

Module 9: Troubleshooting Routing Protocols

Module 10: Implementing and Verifying MPLS

Module 11: Implementing Cisco MPLS Traffic Engineering

Module 12: Implementing Segment Routing

Module 13: Describing Segment Routing Traffic Engineering (SR TE)

Module 14: Deploying IPv6 Tunneling Mechanisms

Module 15: Implementing IP Multicast Concepts and Technologies

Module 16: Implementing PIM-SM Protocol

Module 17: Implementing PIM-SM Enhancements

Module 18: Implementing Interdomain IP Multicast

Module 19: Implementing Distributed Rendezvous Point Solution in Multicast Network

LAB OUTLINE

- **Lab 1: Implement OSPF Special Area Types (IPv4 and IPv6)**

- **Lab 2: Implement Multiarea IS-IS**

- **Lab 3: Implement Route Redistribution**

- **Lab 4: Influence BGP Route Selection**

- **Lab 5: Implement BGP Route Reflectors**

- **Lab 6: Implement BGP Security Options**

- **Lab 7: Troubleshoot Routing Protocols**

- **Lab 8: Implement MPLS in the Service Provider Core**

- **Lab 9: Implement Cisco MPLS TE**

- **Lab 10: Configure and Verify Interior Gateway Protocol (IGP) Segment Routing**

- **Lab 11: Implement Tunnels for IPv6**

- **Lab 12: Enable and Optimize PIM-SM**

- **Lab 13: Implement PIM-SM Enhancements**

- **Lab 14: Implement Rendezvous Point Distribution**