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Learning Style: On Demand

Technology: Cisco

Difficulty: Intermediate

Course Duration: 40 Hours

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI) v1.0 - On Demand

Course Information

About this course:

This course will provide you the knowledge and skills needed to install, configure, operate, and troubleshoot an enterprise network. It also covers advanced routing and infrastructure technologies, expanding on the topics covered in the

Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) v1.0 course.

After completing this course, you'll be able to take the Implementing Cisco Enterprise Advanced Routing and Services (300-410 ENARSI) exam, passing which will get you the new CCNP Enterprise and Cisco Certified Specialist – Enterprise Advanced Infrastructure Implementation certifications.

Course Objective:

Once the course is completed, you should be able to:

- Configure Open Shortest Path First version 2 (OSPFv2) and OSPFv3 in IPv4 and IPv6 environments
- Optimize OSPFv2 and OSPFv3 behavior
- Troubleshoot OSPFv2 for IPv4 and OSPFv3 for IPv4 and IPv6
- Configure classic Enhanced Interior Gateway Routing Protocol (EIGRP) and named EIGRP for IPv4 and IPv6
- Optimize classic EIGRP and named EIGRP for IPv4 and IPv6
- Troubleshoot classic EIGRP and named EIGRP for IPv4 and IPv6
- Configure Multiprotocol-Border Gateway Protocol (MP-BGP) in IPv4 and IPv6 environments
- Optimize MP-BGP in IPv4 and IPv6 environments
- Troubleshoot MP-BGP for IPv4 and IPv6
- Implement route redistribution using filtering mechanisms
- Troubleshoot redistribution
- Implement path control using policy-based routing (PBR) and IP service level agreement (SLA)
- Describe the features of Multiprotocol Label Switching (MPLS)
- Describe the major architectural components of an MPLS VPN
- Identify the routing and packet forwarding functionalities for MPLS VPNs
- Describe the tools available to secure the IPV6 first hop
- Troubleshoot Cisco router security features
- Troubleshoot infrastructure security and services
- Explain how packets are forwarded in an MPLS VPN environment
- Implement Cisco IOS Dynamic Multipoint VPNs (DMVPNs)
- Implement DHCP

Audience:

- System engineers
- Network administrators
- Enterprise network engineers
- System administrators

Prerequisite:

You should be knowing these before taking this course:

- General understanding of how to manage network devices
- General understanding of how to secure network devices
- Basic knowledge of network automation
- General understanding of network fundamentals
- Basic knowledge of how to implement LANs

These Cisco courses are recommended to help you meet these prerequisites:

- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) v1.0
- Interconnecting Cisco Networking Devices, Part 1 (ICND1) v3.0
- Interconnecting Cisco Networking Devices, Part 2 (ICND2) v3.0

Course Outline:

- **Implementing EIGRP**
- **Optimizing EIGRP**
- **Troubleshooting EIGRP**
- **Implementing OSPF**
- **Optimizing OSPF**
- **Troubleshooting OSPF**
- **Implementing Internal Border Gateway Protocol (IBGP)**
- **Optimizing BGP**
- **Implementing MP-BGP**
- **Troubleshooting BGP**
- **Configuring Redistribution**
- **Troubleshooting Redistribution**
- **Implementing Path Control**
- **Exploring MPLS**
- **Introducing MPLS L3 VPN Architecture**
- **Introducing MPLS L3 VPN Routing**
- **Configuring Virtual Routing and Forwarding (VRF)-Lite**
- **Implementing DMVPN**
- **Implementing DHCP**
- **Troubleshooting DHCP**
- **Introducing IPv6 First Hop Security**
- **Securing Cisco Routers**
- **Troubleshooting Infrastructure Security and Services**

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