

Why Learn CCNP Enterprise?

The Implementing Cisco Enterprise Advanced Routing and Services (ENARSI) v1.0 gives you the knowledge you need to install, configure, operate, and troubleshoot an enterprise network.

Audience Profile :

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

Prerequisites:

- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR).
- Basic knowledge of network automation.
- General understanding of how to secure network devices.
- General understanding of how to manage network devices



Course Overview:

- Cisco Certified Specialist – Enterprise Advanced Infrastructure CCNP Enterprise Concentration exam Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)
- Implementing Cisco Enterprise Advanced Routing and Services (300-410 ENARSI) course is designed to prepare for the exam (300-410 ENARSI) which is associated with the CCNP Enterprise Certification.
- In this training class, you will gain knowledge for implementation and troubleshooting of advanced routing technologies and services including Layer 3, VPN services, infrastructure security, infrastructure services, and infrastructure automation.
- This course covers advanced routing and infrastructure technologies, expanding on the topics covered in the ENCOR – Implementing and Operating Cisco Enterprise Network Core Technologies v1.0 course.
- The course covers implementation and troubleshooting for advanced routing technologies and services, including:
 - Layer 3
 - VPN services
 - Infrastructure security
 - Infrastructure services
 - Infrastructure automation

CCNP Enterprise – Advanced Routing and Services ENARSI 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

Labs

- Configure EIGRP Using Classic Mode and Named Mode for IPv4 and IPv6
- Verify the EIGRP Topology Table
- Configure EIGRP Stub Routing, Summarization, and Default Routing
- Configure EIGRP Load Balancing and Authentication
- Configure OSPFv3 for IPv4 and IPv6
- Verify the Link-State Database
- Configure OSPF Stub Areas and Summarization
- Configure OSPF Authentication
- Implement Routing Protocol Redistribution
- Manipulate Redistribution
- Manipulate Redistribution Using Route Maps
- Troubleshoot Redistribution Issues
- Configure IBGP and External Border Gateway Protocol (EBGP)
- Implement BGP Path Selection
- Configure BGP Advanced Features
- Configure MP-BGP for IPv4 and IPv6
- Obtain IPv6 Addresses Dynamically
- Troubleshoot DHCPv4 and DHCPv6 Issues
- Troubleshoot IPv4 and IPv6 Access Control List (ACL) Issues
- Configure and Verify Control Plane Policing
- Configure and Verify Unicast Reverse Path Forwarding (uRPF)
- Troubleshoot Network Management Protocol Issues: Lab 1
- Troubleshoot Network Management Protocol Issues: Lab 2

Training Solutions:

✓ Offline Classroom Instructor-Led Training in our labs or onsite Locations.

✓ Virtual Instructor-Led Training Via Virtual Video Conferencing Tools.

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