

CISCO CCNP ENTERPRISE

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 98% success
- Course specific thinQtank® Learning publications to promote fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT "TEACH THE TEST" We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by CCIE expert instructors

Course Duration

- Four days of instructor-led learning
70% lecture, 30% hands-on labs

Prerequisites

- Implementation of Enterprise LAN networks
- Basic understanding of routing and wireless connectivity
- Basic Internet usage skills
- Basic understanding of python scripting

Target Audience

- Those looking to earn their CCNP Certification
- Those looking to earn their CCNP Specialist
- Engineers involved in the installation and support of enterprise network architectures
- Those who configure, verify, and troubleshoot enterprise network architectures
- Network engineers, administrators, technicians

Exam Information

- 350-410 – Implementing Cisco Enterprise Advanced Routing and Services v1.0

Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

Exclusive Tools and Learning Package

- Comprehensive video training package
- Virtual builds of all labs and hand-on learning objectives so learners can continue their hands on experience after the completion of the course
- Industry unique training course to achieve multiple certifications in one training camp

Course Overview

thinQtank® Learning is offering a unique four-day training camp of instructor-led learning for Implementing Cisco Enterprise Advanced Routing and Services (ENARSI). As with all of our Cisco Training Experiences – exams are delivered in the classroom.

This course provides CCNP-level network administrators, network support, and help desk technicians with the knowledge and skills needed to install, configure, operate, and troubleshoot a dual stack enterprise network. It provides a deep dive into advanced routing and infrastructure technologies; an expansion of the topics covered in the Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) course.

Course Objectives

Upon completing this portion of the course, learners will be able to meet these objectives:

- Configure, optimize, and troubleshoot EIGRP
- Configure, optimize, and troubleshoot OSPFv2 and OSPFv3
- Implement and troubleshoot route redistribution using filtering mechanisms
- Implement path control using PBR and IP SLA
- Configure, optimize, and troubleshoot BGP
- Implement MP—BGP
- Describe the features of MPLS
- Describe the major architectural components of an MPLS VPN
- Identify the routing and packet forwarding functionalities for MPLS VPNs
- Explain how packets are forwarded in an MPLS VPN environment
- Implement Cisco IOS DMVPNs
- Implement and troubleshoot DHCP
- Describe the tools available to secure the IPv6 first hop
- Troubleshoot Cisco router security features
- Troubleshoot infrastructure security and services
- Troubleshoot network issues with Cisco DNA Center Assurance

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Course Modules

1	<ul style="list-style-type: none"> ▪ Implementing EIGRP ▪ Optimizing EIGRP ▪ Troubleshooting EIGRP
2	<ul style="list-style-type: none"> ▪ Implementing OSPF ▪ Optimizing OSPF ▪ Troubleshooting OSPF ▪ Configuring Redistribution ▪ Troubleshooting Redistribution
3	<ul style="list-style-type: none"> ▪ Implementing Path Control ▪ Implementing IBGP ▪ Optimizing IBGP ▪ Implementing MP-BGP ▪ Troubleshooting BGP
4	<ul style="list-style-type: none"> ▪ Configuring VRF-Lite ▪ Implementing DMVPN ▪ Implementing DHCP ▪ Securing Cisco Routers ▪ Troubleshooting Infrastructure Security and Services
S E L F	<ul style="list-style-type: none"> ▪ Exploring MPLS ▪ Introducing MPLS L3 VPN Architecture ▪ Introducing MPLS L3 VPN Routing ▪ Introducing IPv6 First Hop Security ▪ Troubleshooting with DNA Center Assurance ▪ Topics on troubleshooting EIGRP, OSPF, BGP, and Redistribution ▪ Topics on CoPP ▪ Topics on troubleshooting infrastructure security and services

Labs and Demonstrations

L	<ul style="list-style-type: none"> ▪ Discovery 1: Configure EIGRP Using Classic Mode and Named Mode for IPv4 and IPv6 ▪ Discovery 2: Verify the EIGRP Topology Table ▪ Discovery 3: Configure EIGRP Stub Routing, Summarization, and Default Routing ▪ Discovery 4: Configure EIGRP Load Balancing and Authentication ▪ Discovery 5: Troubleshoot EIGRP Issues ▪ Discovery 6: Configure OSPFv3 for IPv4 and IPv6 ▪ Discovery 7: Verify the Link—State Database ▪ Discovery 8: Configure OSPF Stub Areas and Summarization ▪ Discovery 9: Configure OSPF Authentication ▪ Discovery 10: Troubleshoot OSPF Issues ▪ Discovery 11: Implement Routing Protocol Redistribution ▪ Discovery 12: Manipulate Redistribution ▪ Discovery 13: Manipulate Redistribution Using Route Mag ▪ Discovery 14: Troubleshoot Redistribution Issues ▪ Discovery 15: Implement PBR ▪ Discovery 16: Configure IBGP and EBGP ▪ Discovery 17: Implement BGP Path Selection ▪ Discovery 18: Configure BGP Advanced Features ▪ Discovery 19: Configure BGP Route Reflectors ▪ Discovery 20: Configure MP-BGP for IPv4 and IPv6 ▪ Discovery 21: Troubleshoot BGP Issues ▪ Discovery 22: Configure Routing with VRF-Lite ▪ Discovery 23: Implement Cisco IOS DMVPN ▪ Discovery 24: Obtain IPv6 Addresses Dynamically ▪ Discovery 25: Troubleshoot DHCPv4 and DHCPv6 Issues ▪ Discovery 26: Troubleshoot IPv4 and IPv6 ACL Issues ▪ Discovery 27: Configure and Verify uRPF ▪ Discovery 28: Troubleshoot Network Management Protocol Issues: Lab 1 ▪ Discovery 29: Troubleshoot Network Management Protocol Issues: Lab 2
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