

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

Course Duration: 40 Hours

Course Code: ENASRI 300-410

1. Course Overview

The **Implementing Cisco Enterprise Advanced Routing and Services (ENARSI) v1.0** course provides in-depth knowledge required to install, configure, operate, and troubleshoot advanced enterprise routing and infrastructure technologies. This training covers advanced Layer 3 solutions, VPN services, infrastructure security, infrastructure services, and advanced troubleshooting techniques to build highly secure and scalable enterprise networks.

2. What You'll Learn?

In this course, you will:

- Configure and troubleshoot advanced routing technologies including EIGRP, OSPF, and BGP.
- Implement secure site-to-site and remote access VPN services.
- Deploy advanced enterprise network services such as MPLS, DMVPN, and IPv6.
- Apply infrastructure security and automation in enterprise environments.
- Perform advanced troubleshooting of routing protocols and services.

3. Target Audience

This course is designed for:

- Network Engineers
- Enterprise Infrastructure Engineers
- System Engineers
- Network Administrators
- Professionals preparing for the **CCNP Enterprise Certification**

4. Pre-Requisites

Before enrolling, participants should have:

- Understanding of enterprise networking concepts
- Knowledge equivalent to Cisco CCNA level
- Basic knowledge of routing protocols, LAN, WAN technologies, and IP addressing
- Experience with Cisco routing and switching technologies

5. Course Content

Module 1: EIGRP (Enhanced Interior Gateway Routing Protocol)

- Implementing EIGRP
- Optimizing EIGRP convergence
- Troubleshooting EIGRP

Module 2: OSPF (Open Shortest Path First) Protocol

- Implementing OSPFv2 and OSPFv3
- Optimizing OSPF performance
- Troubleshooting OSPF

Module 3: Border Gateway Protocol (BGP)

- Implementing BGP in enterprise networks
- Path selection and policy control
- Troubleshooting BGP

Module 4: VPN Services

- Implementing MPLS Layer 3 VPNs
- Deploying DMVPN (Dynamic Multipoint VPN)
- Configuring FlexVPN and site-to-site VPNs

Module 5: Infrastructure Security & Services

- Securing routing protocols
- Control plane security features
- Implementing device access control and authentication

Module 6: Troubleshooting Techniques

- Troubleshooting EIGRP, OSPF, and BGP
- Troubleshooting VPN services
- Infrastructure service troubleshooting