

300-410: Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

Configure and troubleshoot advanced enterprise routing and services, aligned to the Cisco ENARSI 300-410 exam.

DURATION

5 days · 40 hours

LEVEL

Advanced

CURRICULUM

13 modules · 8 labs

DELIVERY

Live online, Onsite,
Corporate

Course overview

ENARSI is the most popular concentration exam for CCNP Enterprise, and it is unusually focused on troubleshooting. You are expected to diagnose why routes are missing, why adjacencies fail and why traffic takes the wrong path, often in multi-protocol environments. This five-day course builds that diagnostic skill through intensive labs.

Days one and two cover Layer 3 technologies in depth: administrative distance, route maps, policy-based routing, redistribution and loop prevention, followed by EIGRP, OSPF and BGP configuration and troubleshooting, including BGP attributes, route reflectors and filtering. Day three moves to VPN technologies: MPLS operation and Layer 3 VPN concepts, DMVPN phases, and IPsec protection. Day four covers infrastructure security, including AAA, uRPF, IPv4 and IPv6 ACLs, control plane policing and IPv6 first-hop security. Day five deals with infrastructure services such as device management, SNMP, syslog, DHCP, IP SLA, NetFlow and DNA Center assurance concepts, followed by exam preparation.

Each topic follows the same rhythm: a short explanation, a configuration lab, then a set of trouble tickets where the trainer has introduced faults for you to find. By the end of the week you will have a reliable method for isolating routing problems quickly.

This course is aligned to the Cisco ENARSI 300-410 exam. Cisco can revise exam topics, so confirm the current version and pricing with Cisco before booking.

Highlights

- 40 hours of live, trainer-led sessions
- Deep labs on EIGRP, OSPF, BGP and redistribution
- DMVPN and MPLS Layer 3 VPN concepts
- Troubleshooting-first approach throughout
- Mock exam with detailed review

What's included

- Trainer with advanced enterprise routing experience
- Plan aligned to the four ENARSI topic areas
- Trouble-ticket labs after every topic
- Multi-protocol redistribution scenarios
- DMVPN and IPsec configuration
- Mock exam with review
- Course completion certificate from Ace Skills Consulting

Who this course is for

Who should attend

- Network engineers working with enterprise routing
- Engineers who have passed or are preparing for ENCOR
- Network support and NOC engineers handling escalations
- Network consultants and designers

Prerequisites

- CCNA-level knowledge and hands-on Cisco experience
- Familiarity with OSPF and basic BGP is strongly recommended
- ENCOR study before or alongside this course is helpful

Detailed curriculum — 5 days, 40 hours, 13 modules, 8 hands-on labs

Day 1 Routing Control and EIGRP

8 hours

1.1 Routing control

- Administrative distance
- Policy-based routing
- Route maps and prefix lists
- VRF-lite

LAB Implement policy-based routing and VRF-lite · 45 min

1.2 Redistribution

- Redistribution between protocols
- Suboptimal routing
- Route tagging and loop prevention

LAB Fix routing loops after mutual redistribution · 50 min

1.3 EIGRP

- Named mode
- Load balancing
- Stub routing and summarisation
- Troubleshooting adjacencies and routes

Day 2 OSPF and BGP

8 hours

2.1 OSPF

- Area types and LSAs
- Summarisation and filtering
- Virtual links
- OSPFv3

LAB Troubleshoot multi-area OSPF trouble tickets · 50 min

2.2 BGP

- iBGP and eBGP
- Route reflectors
- Multiprotocol BGP for IPv6
- Path attributes and best-path selection
- Filtering and communities

LAB Influence BGP path selection with attributes · 55 min

Day 3 VPN Technologies

8 hours

3.1 MPLS

- MPLS operation
- Layer 3 VPN concepts
- Label distribution

3.2 DMVPN

- mGRE and NHRP
- Routing over DMVPN
- DMVPN phases

LAB Build a DMVPN hub-and-spoke network · 60 min

3.3 IPsec

- IPsec fundamentals
- Protecting DMVPN with IPsec
- Troubleshooting tunnels

Day 4 Infrastructure Security

8 hours

4.1 Device security

- AAA with RADIUS and TACACS+
- Control plane policing
- Management plane protection

LAB Configure AAA and CoPP · 40 min

4.2 Traffic filtering

- IPv4 and IPv6 ACLs
- uRPF
- Troubleshooting ACL issues

4.3 IPv6 first-hop security

- RA guard
- DHCPv6 guard
- Binding table and source guard

LAB Apply IPv6 first-hop security features · 35 min

Day 5 Infrastructure Services and Exam Readiness

8 hours

5.1 Device management and services

- Console, VTY and SSH access
- DHCP for IPv4 and IPv6
- NetFlow
- SNMP and syslog
- IP SLA and object tracking
- Assurance platforms

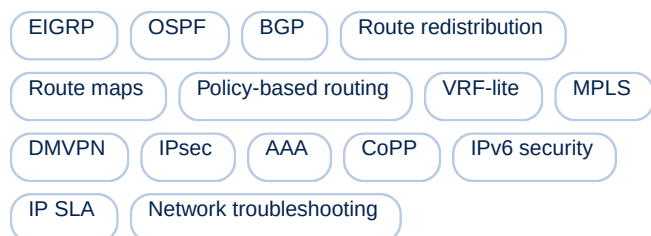
LAB Track a WAN link with IP SLA and failover routes · 40 min

5.2 Exam readiness

- Troubleshooting strategy
- Mixed trouble-ticket challenge
- Mock exam and review

Skills and tools

Skills you will build



Tools used in class



Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

Exam code	300-410
Duration	90 minutes
Delivery	Online proctored, Test centre
Official page	https://www.cisco.com/site/us/en/learn/training-certifications/certifications/enterprise/ccnp-enterprise

Exam skill areas covered

Enterprise Advanced Routing and Services

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Should I take ENCOR or ENARSI first?

Either order works, but many engineers take ENCOR first because its broader coverage makes ENARSI's depth easier to absorb.

Is this course mostly theory or labs?

Mostly labs. Every topic includes configuration practice followed by trouble tickets.

Is the exam fee included?

Only when the batch shows the "Exam voucher included" badge. Otherwise you book directly with Cisco through Pearson VUE.

Can I access labs after the course?

Lab topology files are shared so you can rebuild the scenarios in your own Cisco emulation environment.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/300-410-enterprise-advanced-routing-enarsi · Email: info@aceskillsconsulting.com

Chennai office

Guindy, Chennai, Tamil Nadu

Delhi office

B-95, Old Post Office Street, Shakarpur
New Delhi 110092
Office: 98180 12523

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