

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

LENGTH

5 days

PRICE (Incl. GST)

\$6590

VERSION

1.0

CISCO AT LUMIFY WORK

Lumify Work is the largest provider of authorised Cisco training in Australia, offering a wider range of Cisco courses, run more often than any of our competitors. Lumify Work has won awards such as ANZ Learning Partner of the Year (twice!) and APJC Top Quality Learning Partner of the Year.



Partner

Learning Partner

WHY STUDY THIS COURSE

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

This course covers advanced routing and infrastructure technologies, expanding on the topics covered in the [Implementing and Operating Cisco Enterprise Network Core Technologies \(ENCOR\)](#) course.

This course will help you qualify for professional-level job roles in advanced routing and services.

This course helps prepare you to take the exam 300-410 (ENARSI), which leads to the [CCNP Enterprise](#) and Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation certifications.

Digital courseware: Cisco provides students with electronic courseware for this course. Students who have a confirmed booking will be sent an email prior to the course start date, with a link to create an account via learning.space.cisco.com before they attend their first day of class. Please note that any electronic courseware or labs will not be available (visible) until the first day of the class.

WHAT YOU'LL LEARN

After taking this course, you should be able to:

- › Configure classic Enhanced Interior Gateway Routing Protocol (EIGRP) and named EIGRP for IPv4 and IPv6
- › Optimise classic EIGRP and named EIGRP for IPv4 and IPv6
- › Troubleshoot classic EIGRP and named EIGRP for IPv4 and IPv6
- › Configure Open Shortest Path First (OSPF)v2 and OSPFv3 in IPv4 and IPv6 environments

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)



My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.

AMANDA NICOL
IT SUPPORT SERVICES
MANAGER - HEALTH WORLD
LIMITED

- › Optimise OSPFv2 and OSPFv3 behaviour
- › Troubleshoot OSPFv2 for IPv4 and OSPFv3 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)
- › Configure Multiprotocol-Border Gateway Protocol (MP-BGP) in IPv4 and IPv6 environments
- › Optimise MP-BGP in IPv4 and IPv6 environments
- › Troubleshoot MP-BGP for IPv4 and IPv6
- › 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
- › Explain how packets are forwarded in an MPLS VPN environment
- › Implement Cisco Internetwork Operating System (IOS) Dynamic Multipoint VPNs (DMVPNs)
- › Implement Dynamic Host Configuration Protocol (DHCP)
- › Describe the tools available to secure the IPV6 first hop
- › Troubleshoot Cisco router security features
- › Troubleshoot infrastructure security and services

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

COURSE SUBJECTS

- Implementing EIGRP
- Optimising EIGRP
- Troubleshooting EIGRP
- Implementing OSPF
- Optimising OSPF
- Troubleshooting OSPF
- Implementing Internal Border Gateway Protocol (IBGP)
- Optimising 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

Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on [1 800 853 276](tel:1800853276).

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>



Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

- 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, Summarisation, and Default Routing
- Configure EIGRP Load Balancing and Authentication
- LAB: Troubleshoot EIGRP Issues
- Configure OSPFv3 for IPv4 and IPv6
- Verify the Link-State Database
- Configure OSPF Stub Areas and Summarisation
- Configure OSPF Authentication
- Troubleshoot OSPF
- Implement Routing Protocol Redistribution
- Manipulate Redistribution
- Manipulate Redistribution Using Route Maps
- Troubleshoot Redistribution Issues
- Implement PBR
- Configure IBGP and External Border Gateway Protocol (EBGP)
- Implement BGP Path Selection
- Configure BGP Advanced Features
- Configure BGP Route Reflectors
- Configure MP-BGP for IPv4 and IPv6
- Troubleshoot BGP Issues

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

- Implement PBR
- Configure Routing with VRF-Lite
- Implement Cisco IOS DMVPN
- 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

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>



Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

WHO IS THE COURSE FOR?

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

We can also deliver and customise this training course for larger groups – saving your organisation time, money and resources. For more information, please contact us on [1800 U LEARN \(1800 853 276\)](tel:1800853276)

PREREQUISITES

Before taking this course, you should have:

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

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

- [Implementing and Operating Cisco Enterprise Network Core Technologies \(ENCOR\)](#)
- Interconnecting Cisco Networking Devices, Part 1 (ICND1)
- Interconnecting Cisco Networking Devices, Part 2 (ICND2)

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

<https://www.lumifywork.com/en-au/courses/implementing-cisco-enterprise-advanced-routing-and-services-enarsi/>