

# CISC-14 - ENARSI - IMPLEMENTING CISCO ENTERPRISE ADVANCED ROUTING AND SERVICES

Categoria: Cisco

## INFORMAZIONI SUL CORSO



Durata:  
5 Giorni



Categoria:  
Cisco



Qualifica Istruttore:  
Cisco Certified  
Instructor



Dedicato a:  
Professionista IT



Produttore:  
Cisco

## OBIETTIVI

After completing this course you should be able to:

- Configure classic EIGRP and named EIGRP for IPv4 and IPv6
- Optimize classic EIGRP and named EIGRP for IPv4 and IPv6
- Troubleshoot classic EIGRP and named EIGRP for IPv4 and IPv6
- Configure OSPFv2 and OSPFv3 in IPv4 and IPv6 environments
- Optimize OSPFv2 and OSPFv3 behavior
- Troubleshoot OSPFv2 for IPv4 and OSPFv3 for IPv4 and IPv6
- Implement route redistribution using filtering mechanisms
- Troubleshoot redistribution
- Implement path control using PBR and IP SLA
- Configure MP-BGP in IPv4 and IPv6 environments
- Optimize MP-BGP in IPv4 and IPv6 environments
- Troubleshoot MP-BGP for IPv4 and IPv6
- 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 DHCP
- Describe the tools available to secure the IPV6 first hop
- Troubleshoot Cisco router security features
- Troubleshoot infrastructure security and services

## PREREQUISITI

Attendees should meet the following prerequisites:

- 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

Recommended prerequisites:

-CCNA - Implementing and Administering Cisco Solutions

-ENCOR - Implementing and Operating Cisco Enterprise Net

## CONTENUTI

**Implementing EIGRP**

**Optimizing EIGRP**

**Troubleshooting EIGRP**

**Implementing OSPF**

**Optimizing OSPF**

**Troubleshooting OSPF**

**Implementing 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 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

-LAB: Troubleshoot EIGRP Issues

-Configure OSPFv3 for IPv4 and IPv6

-Verify the Link-State Database

-Configure OSPF Stub Areas and Summarization

-Configure OSPF Authentication

-Troubleshoot OSPF

-Implement Routing Protocol Redistribution

-Manipulate Redistribution

-Manipulate Redistribution Using Route Maps

-Troubleshoot Redistribution Issues

-Implement PBR

-Configure IBGP and EBGP

-Implement BGP Path Selection

- Configure BGP Advanced Features
- Configure BGP Route Reflectors
- Configure MP-BGP for IPv4 and IPv6
- Troubleshoot BGP Issues
- Implement PBR
- Configure Routing with VRF-Lite
- Implement Cisco IOS DMVPN
- Obtain IPv6 Addresses Dynamically
- Troubleshoot DHCPv4 and DHCPv6 Issues
- Troubleshoot IPv4 and IPv6 ACL Issues
- Configure and Verify Control Plane Policing
- Configure and Verify uRPF
- Troubleshoot Network Management Protocol Issues: Lab 1
- Troubleshoot Network Management Protocol Issues: Lab 2

## INFO

**Esame:** 300-410 - Implementing Cisco Enterprise Advanced Routing and Services

**Materiale didattico:** Materiale didattico ufficiale Cisco in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)