

建置 Cisco 企業網路進階路由及服務

| 代碼 | ENARSI |
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| 中文名稱 | 建置 Cisco 企業網路進階路由及服務 |
| 英文名稱 | Implementing Cisco Enterprise Advanced Routing and Services |
| 課程長度 | 5天 |
| 上課時間 | 09:00 ~17:00 |
| 費用 | 68,000 |
| 教材 | 原廠教材 |
| 考試代碼 | 300-410 |
| 適合對象 | Course Benefits: This course will help you: Gain the knowledge you need to install, configure, operate, and troubleshoot an enterprise network Qualify for professional-level job roles in advance routing and services Prepare for the Implementing Cisco Enterprise Advanced Routing and Services (300-410 ENARSI) exam, which will be available beginning February 24, 2020 Job Roles Enterprise network engineers System engineers System administrators Network administrators |
| 學前基礎 | Course 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) v1.0 Interconnecting Cisco Networking Devices, Part 1 (ICND1) v3.0 Interconnecting Cisco Networking Devices, Part 2 (ICND2) v3.0 |
| 課程目標 | Course Objectives: After taking this course, you should be able to: Configure classic Enhanced Interior Gateway Routing Protocol (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 Open Shortest Path First (OSPF)v2 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 Policy-Based Routing (PBR) and IP service level agreement (SLA) Configure Multiprotocol-Border Gateway Protocol (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 Multiprotocol Label Switching (MPLS) Describe the major architectural components of an MPLS VPN |



| | 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 Course Outline Implementing EIGRP Optimizing EIGRP Troubleshooting EIGRP Implementing OSPF Optimizing OSPF Troubleshooting OSPF Implementing Internal Border Gateway Protocol (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 Virtual Routing and Forwarding (VRF)-Lite Implementing DMVPN Implementing DMVPN Implementing DHCP Troubleshooting IPv6 First Hop Security | |
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| 課程內容 | Securing Cisco Routers Troubleshooting Infrastructure Security and Services Lab Outline 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 Using Route Maps Troubleshoot Redistribution Issues Implement PBR Configure IBGP and External Border Gateway Protocol (EBGP) Implement BGP Path Selection Configure BGP Route Reflectors 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 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