



CCNP

Routing (ROUTE)

Course Description

CCNP: Routing is one of three courses leading to the Cisco Certified Network Professional (CCNP®) designation. CCNP: Routing teaches students to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols. The course also covers configuration of secure routing solutions to support branch offices and mobile workers.

Prerequisites

Cisco CCNA® certified

Who should attend this course?

The course is appropriate for enterprise network engineers with at least one year of job experience who are ready to advance their skills and work independently on complex network solutions.

Certification Alignment

Part of the official CCNP curriculum, it covers the skills that are validated in the CCNP certification exam 642-902 ROUTE.

Duration

5 days (full time)
9:00am – 5:30pm Monday to Friday

Outcome

Upon completion of this course, students will have performed tasks related to:

- Planning Routing Services to Requirements
- Implementing an EIGRP-Based Solution
- Implementing a Scalable, Multi-area Network OSPF-Based Solution
- Implementing an IPv4-Based Redistribution Solution
- Implementing Path Control
- Connecting an Enterprise Network to ISP Networks
- Implementing IPv6
- Implementing Routing Facilities for Branch Offices and Mobile Workers

Course Content

The course consists of theory lessons and practical exercises that build your understanding of and experience in troubleshooting in complex, enterprise routed and switched IP networks.

- Module 1: Planning Tasks for the CCNP Routing Exams (ITIL related)
- Module 2: EIGRP Overview and Neighbour Relationships
- Module 3: EIGRP Topology, Routes, and Convergence
- Module 4: EIGRP Route Summarization and Filtering
- Module 5: OSPF Overview and Neighbour Relationships
- Module 6: OSPF Topology, Routes, and Convergence
- Module 7: OSPF Route Summarization, Filtering, and Default Routing
- Module 8: OSPF Virtual Links and Frame Relay Operations
- Module 9: Basic IGP Redistribution
- Module 10: Advanced IGP Redistribution
- Module 11: Policy-Based Routing and IP Service Level Agreement
- Module 12: Internet Connectivity and BGP
- Module 13: External BGP
- Module 14: Internal BGP and BGP Route Filtering
- Module 15: BGP Path Control
- Module 16: IP Version 6 Addressing
- Module 17: IPv6 Routing Protocols and Redistribution
- Module 18: IPv4 and IPv6 Coexistence
- Module 19: Routing over Branch Internet Connections

For more information on all our courses please visit our website www.inspiredtraining.com.au and if you need to speak to one of our advisers email enquiries@inspiredtraining.com.au