

CI - ROUTE

Implementing Cisco IP Routing v1.0

Summary

Duration
5 Days

Vendor
Cisco

Category
Routing/CCNP/CCIP/CCDP



Introduction

The ROUTE course is designed to provide professionals of medium to large network sites with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs. The goal is to train professionals to dramatically increase the number of routers and sites using these techniques instead of redesigning the network when additional sites or wiring configurations are added. The ROUTE training reinforces the instruction by providing students with hands-on labs to ensure they thoroughly understand how to implement advanced routing within their networks.

The authorized student material, that each Torque IT student receives, includes more than seven hours of e-learning content that stresses core learning objectives covered in the associated certification exam. These self-paced lessons, demos, and assessments can be absorbed by candidates after the class and at their own pace.

Prerequisites

CCNA

Course Objectives

Upon completing this course, you will be able to meet these objectives:

- Plan and document the configuration and verification of routing protocols and their optimization in enterprise networks.
- Identify the technologies, components, and metrics of EIGRP used to implement and verify EIGRP routing in diverse, large-scale internetworks based on requirements.
- Identify, analyze, and match OSPF multi-area routing functions and benefits for routing efficiencies in network operations in order to implement and verify OSPF routing in a complex enterprise network
- Implement and verify a redistribution solution in a multi-protocol network that uses Cisco IOS features to control path selection and provides a loop-free topology according to a given network design and requirements
- Evaluate common network performance issues and identify the tools needed to provide Layer 3 path control that uses Cisco IOS features to control the path
- Implement and verify a Layer 3 solution using BGP to connect an enterprise network to a service provider

Course Outline

- Course Overview
- Planning Routing Services
- Implementing an EIGRP based Solution
- Implementing a Scalable Multi-area Network OSPF based Solution
- Implement an IPv4 based redistribution solution
- Implement Path Control
- Connecting an Enterprise Network to ISP Networks
- E-Learning ROUTE-01 of 3: Implement Path Control
- E-Learning ROUTE-02 of 3: Implementing IPv6
- E-Learning ROUTE-03 of 3: Implementing Routing Facilities for Branch Offices and Mobile Workers

Associated Certifications & Exams

The Implementing Cisco IP Routing (ROUTE 642-902) is a qualifying exam for the Cisco Certified Network Professional CCNP®, Cisco Certified Internetwork Professional CCIP®, and Cisco Certified Design Professional CCDP® certifications. The ROUTE 642-902 exam will certify that the successful candidate has the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalable and secure Cisco ISR routers connected to LANs and WANs.

On successful completion of this course students will receive a Torque IT attendance certificate.