

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

(ROUTE) Implementing Cisco IP Routing

Course Description:

This course is a component of the Cisco CCNP Routing and Switching curriculum designed to help delegates with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs.

This course is designed for network professionals who want to correctly implement routing based solutions given a network design using Cisco IOS services and features, where implementation of routing includes planning, configuring and verification.

Pre-requisites:

ICND1 & 2

Course Content:

- **Planning Routing Services to Requirements**
- **Implementing an EIGRP-Based Solution**
- Assessing Complex Enterprise Network Requirements
- Common Maintenance Processes and Procedures
- Planning Routing Implementations with EIGRP
- Implementing and Verifying Basic EIGRP for the Enterprise LAN Architecture
- Configuring and Verifying EIGRP for the Enterprise WAN Architecture
- Implementing and Verifying EIGRP Authentication
- Advanced EIGRP Features in an Enterprise Network

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Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

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- **Implementing a Scalable Multiarea Network OSPF-Based Solution**
 - Planning Routing Implementations with OSPF as Scalable Routing Protocol
 - How OSPF Packet Processes Work
 - Improving Routing Performance in a Complex Enterprise Network
 - Configuring and Verifying OSPF Routing
 - Configuring and Verifying OSPF Route Summarization
 - Configuring and Verifying OSPF Special Area Types
 - OSPF area types
 - Configuring and Verifying OSPF Authentication
- **Implement an IPv4-Based Redistribution Solution**
 - Assessing Network Routing Performance and Security Issues
 - Operating a Network Using Multiple IP Routing Protocols
 - Configuring and Verifying Route Redistribution
- **Implementing Path Control**
 - Assessing Path Control Network Performance Issues
 - Lab 5-1 Debrief
 - References to additional Path Control in E-Learning
- **Connection of an Enterprise Network to an ISP Network**
 - Planning the Enterprise-to-ISP Connection
 - Considering the Advantages of Using BGP
 - Comparing the Functions and Uses of EBGP and IBGP
 - Configuring and Verifying Basic BGP Operations
 - Using the BGP Attributes and Path Selection Process

Course Duration:

4 Days

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