HEROTEC
NETWORK PROFESSIONAL TRAINING

Implementing Cisco IP Routing (ROUTE) 2.0

Related Certificate	CCNP Certification
Course ID	ROUTE v2.0
Related Exams	300-101 ROUTE
Audience	IT Professional
Hours	40

Overview:

ROUTE v2.0 includes major updates and follows an updated blueprint. However, note that this course does not cover all items listed on the blueprint. Some older topics have been removed or simplified, while several new IPv6 routing topics have been added. Course content has been adapted to Cisco IOS Software Release 15 and technically updated. Course also introduces new type of labs, called discovery labs. Discovery labs are instructor guided lab through which student explores new topics in an interactive way. All labs are developed only as virtual labs. To get the full course experience, you should cover everything, including Introduction, Discovery labs, Summary, and Module Self-Check.

Objectives:

➢ Describe routing protocols, different remote connectivity options and their impact on routing and implement RIPng
➢ Configure EIGRP in IPv4 and IPv6 environment
➢ Configure OSPF in IPv4 and IPv6 environment
➢ Implement route redistribution using filtering mechanisms
➢ Implement path control using policy based routing and IP SLA
➢ Implement enterprise Internet connectivity
➢ Secure Cisco routers according to best practices and configure authentication for routing protocols

Outlines:

o Planning Routing Services
o Implement an EIGRP based solution, given a network design and a set of requirements
o Implementing an EIGRP based Solution
o Implement a multi-area OSPF Network, given a network design and a set of requirements
o Implementing a Scalable Multiarea Network OSPF based Solution Implement an eBGP based solution, given a network design and a set of requirements
o Implement an IPv4 based redistribution solution
o Implement an IPv6 based solution, given a network design and a set of requirements
o Implement Path Control
o Implement an IPv4 or IPv6 based redistribution solution, given a network design and a set of requirements
o Connecting an Enterprise Network to ISP Networks
o Implement Layer 3 Path Control Solution
o Implement an eBGP based solution, given a network design and a set of requirements
o Implement an IPv6 based solution, given a network design and a set of requirements
o Implement an IPv4 or IPv6 based redistribution solution, given a network design and a set of requirements
o Implement Layer 3 Path Control Solution

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