

Recommended reading for written exam

1. Reviewing IP Routing Principles:

Review the fundamentals of routing and compare various routing protocols
Static route, Distance vector routing protocols, Link-state routing protocols

2. Enhanced Interior Gateway Routing Protocol (EIGRP)

Describe the basic functions and operation of EIGRP
Describe EIGRP optimization mechanisms

3. Open Shortest Path First Protocol (OSPF)

Understanding OSPF Terminology and Operation
Describe OSPF terminology and operation within various enterprise environments
Explain the OSPF packet types
Understanding OSPF LSAs and describe common LSAs
Describe how LSAs form the layout of the OSPF LSDB

4. Manipulating Routing Updates and Path Control

Describe network performance issues and ways to control routing updates and traffic
Describe the purpose of multiple protocols
Describe various methods for controlling routing update traffic
Describe how the various path control methods affect traffic

5. Border Gateway Protocol (BGP)

BGP Terminology, Concepts, and Operation
Describe basic BGP terminology and operation, including EBGP and IBGP
BGP Attributes
BGP message types
Describe various methods for manipulating path selection
Describe how to filter routes in BGP

6. IPv6

Describe the basics of IPv6
Describe the basics of IPv6 addressing
Describe IPv6 addresses (unicast, anycast, multicast)
Describe IPv6 routing
Describe IPv6 tunneling
Describe static and dynamic NAT-PT