

Topics

1 Introduction to the CCNA

Part 1. Network fundamentals

2 Network devices

3 Cables, connectors, and ports

4 The TCP/IP networking model

5 The Cisco IOS CLI

6 Ethernet LAN switching

7 IPv4 addressing

8 Router and switch interfaces

Part 2. Routing fundamentals and subnetting

9 Routing fundamentals

10 The life of a packet

11 Subnetting IPv4 networks

Part 3. Layer 2 concepts

12 VLANs

13 Dynamic Trunking Protocol and VLAN Trunking Protocol

14 Spanning Tree Protocol

15 Rapid Spanning Tree Protocol

16 EtherChannel

Part 4. Dynamic routing and first hop redundancy protocols

17 Dynamic routing

18 Open Shortest Path First

19 First hop redundancy protocols

Part 5. IPv6

20 IPv6 addressing

21 IPv6 routing

Part 6. Layer 4 and IP access control lists

22 Transmission Control Protocol and User Datagram Protocol

23 Standard access control lists

24 Extended access control lists

Appendixes

Appendix A: Exam topics reference table

Appendix B: CLI command reference table

Appendix C: Chapter quiz questions

Appendix D: Chapter quiz answers