



CCNA (CISCO) Course Outline

The following are areas covered in the CCNA program as outlined by Cisco.

Lesson 1: Internetworking and Cisco IOS

The Cisco IOS Interface

Introduction to TCP/IP and Subnetting

Section 1: Internetworking

The following written lab is covered in Section 1:

1.1 Written Lab: OSI

1.2 Written Lab: Binary/Hexadecimal Practice

Section 2: Introduction to TCP/IP

The following written lab is covered in Section 2:

2.1: Written Lab: Introduction to TCP/IP

Section 3: The Cisco Interface

The following hands-on labs are covered in Section 3:

3.1: Console login

3.2: Router Examination Lab

3.3. Configuring Administrative Functions on your routers

3.4: Configuring your Router interfaces

3.5: Configuring your Catalyst Switches

3.6: Configuring your backbone router and verifying your internetwork

Section 4: Advanced IOS Management

The following hands - on labs are performed in chapter 4:

4.1: Copying the Cisco IOS to a TFTP Host

4.2: Backing up and restoring the configuration of your routers and switch

4.3: Using CDP to find your Neighbors

4.4: Telnetting into Multiple routers and switches simultaneously

4.5: Building and maintaining a hosts table

Lesson 2: IP Routing

Section 5: IP Routing

The following written and hands-on labs are performed in Section 5:

- 5.1: Static Routing and Verification
- 5.2: RIP Routing and Verification
- 5.3: EIGRP Routing and Verification
- 5.4: OSPF Single Area Configuration and Verification
- 5.5: OSPF DR and BDR elections
- 5.7: Written Lab: IP Routing

Lesson 3: Advanced TCP/IP, Access Lists and NAT

Section 6: Advanced TCP/IP

The following written and hands-on labs are performed in section 6

- 6.1: Written Lab: Class B Subnetting
- 6.2: Written Lab: VLSM Design
- 6.3: Implementing VLSM and Summarization

Section 7: Access Lists

The following hands-on labs are performed in chapter 7:

- 7.1: Configuring Standard IP Access - lists
- 7.2: Limiting VTY Access
- 7.3: Extended access - list configurations

Section 8: Network Address Translation

- 8.1: Setting up Network Address Translation (NAT)
- 8.2: Dynamic NAT
- 8.3: Port Address Translation (PAT)

Lesson 4: Switching, VLAN's, Wireless LANs and IPv6

Section 9: Switching and VLANs

The following labs are covered in Section 9:

- 9.1: Configuring Switching with VLAN's and inter - VLAN Routing
- 9.2: Written Lab: Switching

Section 10: Introduction to Wireless LAN's

The following labs are covered in chapter 10:

10.1: Written Lab: Introduction to Wireless

Section 11: Introduction to IPv6

The following labs are covered in Section 11

11.1: Configuring basic IPv6

11.2: Written Lab: IPv6

Lesson 5: Wide Area Networks and Review

Section 12: Cisco Wide Area Network Support (WANs)

The following written and hands-on labs are covered in Section 12:

12.1: Configuring PPP with Authentication

12.2: Configuring Frame Relay

12.3: Verifying Frame Relay

12.4: Written Lab Frame Relay