

Cisco Switch & Router Configuration (CCNA)

Lesson 1.

- (a) OSI Layer and
- (b) TCP/IP Layer
- (c) Basic concept of Device and
- (d) Network Cabling Systems.

Lesson 2. Understanding the TCP/IP protocol and configuration.

Lesson 3. What is IP Address? Basic Knowledge of IP addressing, IP class, Private and Public IP address Subnet Masking, Binary conversion. Difference between IPV4 and IPV6

Lesson 4. (a) Subnetting,
(b) VLSM and 10 IP Question Solving

Lesson 5. Routing Protocols.

- (1) Static
- (2) RIP
- (3) RIPV2
- (4) EIGRP
- (5) OSPF
- (6) BGP

Lab1: (Basic Configuration Using Packet Tracer)

Lab2: (Static, RIP, RIPV2)

Lab3: (EIGRP, OSPF and BGP)

Lesson 6. Basic Concept of VLAN, VTP, and Inter Vlan

Lab 4 (VLAN and VTP Configuration)

Lab 5 (Inter Vlan)

Lesson 7.

- (1) Configure Cisco switch Backbone and Layer2 access switch basic configuration
- (2) Most common command with VLAN configuration
- (3) Spanning tree configuration
- (4) Gateway and DHCP configuration
- (5) Password recovery
- (6) Backing up configuration etc.

Lesson 8. Basic concept of

- (1) DHCP
- (2) NAT
- (3) PAT and
- (4) ACL

Lab 6 (DHCP, NAT)

Lab 7 (PAT and ACL)

Exam 4: (DHCP, NAT, PAT and ACL)

Lesson 9. IPV6 Basic and Configuration