

CCNA

Network Fundamental

- Network Introduction & Media Types.
- Network Devices.
- Network Topologies.
- OSI Reference Model & TCP/IP Model.
- Cable Crimping.

IP Addressing

- IP Sub-netting.
- FLSM & VLSM.
- IP Super-netting.

Router Fundamental

- Router Introduction (Booting Process, Memory Type & Interfaces).
- Basic Commands & Router Protection.
- Password Recovery, Router Backup & Restore.
- Telnet, SSH, HTTP, HTTPS and SDM
- CDP

Routing

- Static Routing & Default Routing.
- Dynamic Routing.
 - RIPv1 & RIPv2
 - OSPF
 - IGRP
 - EIGRP

→ **Switching**

- Switch Introduction & Basic Commands (Port-Security, Interface-range, etc.)
- STP.
- VLAN & VTP.
- Inter-VLAN.
- Ether-Channel.

→ **Access List (ACL)**

- Standard Access List.
- Extended Access List.

→ **NAT**

- Static NAT.
- Dynamic NAT.
- Overload NAT (NAT & PAT).

→ **WAN Protocols**

- HDLC.
- PPP.
- Frame-Relay.
- VPN.

→ **Ipv6**

→ **Wireless**



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