

Network Management - 15 Days

Computer Network Fundamentals

- Introduction to Network
- Types of Networks
- OSI Reference Model
- TCP/IP Model
- Application Layer Protocol
- Transport Layer Protocol
- Network Layer Protocol
- Data Link Layer Protocol
- Network Topology
- Ethernet Cabling

IPv4 Protocol

- IPv4 Header
- IPv4 Addressing
- Subnetting
- CIDR
- VLSM

Router Configuration and Security

- Router's Modes
- Setting the Router's Password
- IP Routing
- Configuring Static Routing
- Configuring Default Route
- Dynamic Routing
- Configuring Dynamic Routing Protocol
 - RIP
 - RIPv2
 - EIGRP
 - OSPF

Switch Configuration and Security

- Setting and Breaking the Switch's Password
- Configuring Port Security
- Configuring VLAN and Inter-VLAN
- Configuring VTP
- Introduction to STP

Network Security

- Introduction to Access Control List (ACL)
- Configuring ACLs

- Standard ACLs
- Extended ACLs

Network Address Translation

- Introduction to NAT
- Configuring NAT
 - Static NAT
 - Dynamic NAT
 - PAT

Wireless LAN

- Wireless standard
- Wireless topologies
- Wireless Protocol
- Configuring Wireless Access Point

Wide Area Network

- Fundamentals of WAN Protocols
- Introduction and configuration of PPP
- Introduction to Frame Relay
- Introduction to ISDN

IPv6 Protocol

- IPv6 Header
- IPv6 Addressing
- Configuring Static Routing with IPv6
- Configuring RIPng
- Configuring EIGRPv6
- Configuring OSPFv3