TOPICS COVERED IN THE TRAINING

Network Essentials or Pre-networking Concepts

1. OSI Layers (Open System Interconnection)
2. IP Addressing (IPV4 & IPv6)
3. Subnetting
4. TCP-IP 3-Way Handshake Method
5. Port Numbers

CCNA Routing & Switching

Switching:

1. Initial Switch Configuration
2. VLAN Configurations
3. Access Port Configurations
4. Trunk Port Configurations
5. VTP (VLAN Trunking Protocol)
6. Inter-vlan Routing

a. Using Separate Gateways
b. Sub-interface or Router on Stick Method
c. Using Layer-3 Switch

7. STP (Spanning Tree Protocol)
8. STP Port fast
9. RSTP (Rapid-Spanning Tree Protocol)
10. BPDU Guard & BPDU Filter
11. EtherChannel
    a. Lacp (Link Aggregation Control Protocol)
    b. PAgP (Port Aggregation Protocol)
12. Switch-port security
13. IOS Backup and Restore (TFTP)

Routing:

1. Initial Routing Configuration
2. Rules to assign IP address to the router

3. WAN Protocols
    a. HDLC
    b. PPP (PAP & CHAP)
4. Static Routing
5. Dynamic Routing
    a. RIP V1 & V2
    b. EIGRP (DUAL Algorithm)
    c. OSPF (Area Concepts)
6. Administrative Distance & Autonomous System Numbers
7. Redistribution (RIP-EIGRP-OSPF)
8. NAT (Network Address Translation)
9. ACL (Access Control List)
    a. Standard
    b. Extended
10. Redundancy & Load Balancing Protocols
    a. HSRP
    b. VRRP
    c. GLBP
11. BGP (EBGP & IBGP)
12. GRE Tunneling
13. Basic Troubleshooting Connectivity

NOTES AND RECORDED CLASSES WILL BE AVAILABLE AFTER THE CLASS EVERYDAY.