

# CISCO CERTIFIED NETWORK ASSOCIATE(CCNA)

2MONTHS

FEES-10.000/-

## Introduction to WAN

1. Components of WAN
2. Function of WAN components
3. OSI layers
4. Adjacent layer interaction
5. Difference between OSI & TCP/IP model
6. TCP/IP protocol suite

## TCP/IP – Addressing & sub netting

1. Class of IP address
2. Types of address (unicast,, broadcast & multicast)
3. Public & private addresses
4. Variable length subnet masking (VLSM), CIDR
5. Super netting

## LAN segmentation

1. Collision domain & broadcast domain
2. Physical segmentation
3. Network switching technology

## Introduction to CISCO

1. Cisco hierarchical model
2. Interface & components

## IOS

1. Modes & basic commands
2. Navigation commands
3. TFTP – (IOS) and CDP

## Routing concepts

1. IP routing basics
2. Static, default & dynamic routing
3. Routed vs Routing protocols
4. Interior routing protocol (RIP v1, v2, IGRP, OSPF, EIGRP)
5. Introduction to exterior routing protocol(EGP, BGP)
6. Distance – vector routing protocol (EIGRP)
7. Comparing distance vector to link state routing
8. Troubleshooting

## Dynamic routing

1. Distance vector routing protocol
2. RIP & IGRP
3. OSPF & EIGRP

## IP Access list

1. Standard access list
2. Extended access list
3. Named access list

## Switching

1. Switching methods
2. Configuring switches using Browser , telnet, cci & menu
3. Layers 2 switching
4. Spanning tree protocol (STP)
5. Configuring VLAN's VLAN trunking protocol
6. Modes of VTP & VTP pruning

## WAN protocol

1. Leased line, circuit & packet switching, PPP & HDLC
2. Authentication protocols PAP & CHAP

## ISDN & Leased line

1. Concepts of ISDN –BRI

2. DDR – Configuration & leased line

#### Frame Relay

1. Concepts of frame relay
2. Password recovery

#### Troubleshooting and Multicom Routers

1. Interface troubleshooting using debug commands
2. WAN troubleshooting, intro channelized E1 lines, PRI lines

1. For global certification contact 91-9556203167