# CCNA COURSE CONTENT

- ➤ Introduction to Computer Networking Concepts
- ➤ Perspective on Networking
- ➤ The TCP/IP and OSI Networking Concepts
- ➤ The TCP/IP Protocol
- ➤ The OSI Reference Model
- ➤ Fundamentals of LANs
- ➤ Overview of Ethernet LAN
- ➤ Ethernet UTP Cabling
- ➤ Improving Performance by using Switches instead of Hubs
- ➤ Ethernet Data-Link Protocols
- ➤ Frame Relay and Packet-Switching Ser vices
- ➤ Fundamentals of IP Addressing and Routing
- ➤ Network Layer Functions
- ➤ Routing
- ➤ IP Addressing
- ➤ IP Routing
- ➤ IP Routing Protocols
- ➤ Network Utilities
- ➤ Fundamentals of TCP/IP Transport, Applications and Security
- ➤ TCP/IP Layer 4 Protocols: TCP and UDP
- ➤ TCP/IP Applications
- ➤ Network Security
- ➤ LAN Switching
- ➤ Ethernet LAN Switching Concepts
- ➤ LAN Switching Concepts
- ➤ Operating CISCO LAN Switches
- ➤ Configuring CISCO IOS Software
- ➤ Ethernet Switch Configuration
- ➤ Configuration of features in common with Routers
- ➤ LAN Switch Configuration and Operation
- ➤ Ethernet Switch Troubleshooting
- ➤ Perspective on Network Verification and Troubleshooting
- ➤ Verifying the Network Topology with CISCO Discovery Protocol
- ➤ Analyzing Layer 1 and 2 Interface status
- ➤ Analyzing the Layer 2 Forwarding Path with the MAC Address Table Wireless LANs
- ➤ Wireless LAN Security
- ➤ IP Routing
- ➤ IP Addressing and Subnetting
- ➤ IP Addressing and Routing
- ➤ Math Operations Used When Subnetting
- ➤ Analyzing and Choosing Subnets Masks
- ➤ Analyzing Existing Subnets
- ➤ CISCO Router ISO CLI
- ➤ Protocol Concepts and Configuration
- ➤ Connected and Static Routes
- ➤ Routing Protocol
- ➤ Configuring and Verifying RIP-2 Troubleshooting IP Routing
- ➤ IP Troubleshooting Tips and Tools
- ➤ Routing troubleshooting scenario
- ➤ IP Services for Internet Access WAN Configuration
- ➤ Configuring Point to Point WANs
- ➤ Configuring and Troubleshooting Internet Access Routers