

# ComSkills Training Service

## Cisco-CCNA Routing & Switching



### Course Description

Welcome to this course: Cisco CCNA Routing & Switching - The Complete Course. This course covers the accelerated CCNA certification exam. It will help you stay up-to date with your networking skills, you'll find information here that will ensure your success as you pursue knowledge, experience, and certification.

This course starts with the basics and will take you through everything essential to pass the certification exam.

### fee:

**Tshs.650,000/= per Delegate**

### Time:

**3 hrs/day for seven weeks**

### Training method available

Open enrolment  
Onsite

### Target Audience

Anyone interested in Network & CCNA

### In this course, you'll learn

- Learning LAN switching technologies
- Learning IP routing and IP services
- Learning IP routing and IP services
- Learning Network Device Security
- Learning WAN technologies
- Learn how to manage Cisco infrastructure
- Troubleshoot networks using key IOS tools

## Short Course Detail

### Getting Started With This Course

- Learning TCP and UDP Protocols
- Learn About Cloud Computing
- Compare Collapsed Core & Three tier Architectures
- Compare and Contrast Network Topologies
- Network Fundamentals: IPv4
- Understanding IPv4/v6Subnetting
- Understanding VLSM
- Understanding NDP & SLAAC
- Configuration and Troubleshooting

### Learn and Understand LAN Switching

- Describe Switching Concepts
- Learning VLANs
- Learn and Understand 802.1q Trunks
- Learning VTP & STP Types
- Learning Ether Channel & Link Aggregation
- Configuring and Troubleshooting Ether channel
- Switch Stacking & Aggregation

### Learning Network Management

- Learning SNMP
- Configure and Verify device-monitoring Using syslog
- Device Maintenance & Management
- Initial Device Configuration
- Troubleshoot using ICMP echo-based IP SLA
- Learn and Understand Cisco SPAN

**Note: For a full and detailed proposal please call or send us email.**

### Learn and Understand IP Routing

- The Routing Concepts
- Learn About Inter VLAN Routing
- Static Routing & Dynamic Routing
- Configure IPv4/ v6Static Routing
- Dynamic Routing Protocols
- Learn How to Configure RIPv2
- Learning OSPF Message Types, Neighbor Adjacencies
- Configuring Single Area OSPFv2/v3
- EIGRP Messages, Metric Calculation
- EIGRP for IPv4/v6

### Learning Wide Area Networks (WANs)

- WAN Options
- Point to Point Protocol(PPP) Cofiguration
- Introduction to PPPoE & GRE Tunnels
- Learning Network Traffic Characteristics
- QoS Traffic Classification & Marking
- QoS Congestion Avoidance & Management

### Learning Network Services

- Understand DHCP
- Configure and Verify DHCP on a Router
- First Hop Redundancy Protocols
- HSRP - Load Balancing
- Configure, Verify, and Troubleshoot NAT

### Securing Network Devices

- Switchport Security
- LAN Security Mitigation
- Infrastructure Security: ACLs
- Learn How to Configure and Troubleshoot Extended ACLs
- Learn How to Configure IPv4/6 ACLs