

**Course Code**

CIS01

**Course Duration**40Hours – 3 hours  
per session**Course Fees**

950 L.E. per Trainee

**Course Title****CCNA****Course Main Topics**

- What is CCNA?
- Introduction to internetworking.
- OSI Reference Model and TCP/IP model and the differences.
- Ethernet Networks, cabling, and topology.
- Physical Layer, Data Link Layer.
- Network layer.
- Introduction to IP addressing, broadcast address, and sub netting.
- Data encapsulation.
- Application, presentation, session, and transport layers of OSI model (details).
- Introduction Security (Perimeter, Firewall, and Internal Routers).
- Access List, NAT.

**Course Practical Topics (Simulation)**

- Introduction to Cisco IOS.
- Practice on simulation router.
- Routing Protocols ,Distance Vector ,RIP v.1, IGRP
- Link State , OSPF
- EIGRP , RIP v2 , Route Summarization , VLSM
- The Router Boot Sequence.

- Managing Configuration Register.
- Verify your configuration.
- Switching Concept.
- STP.
- Configuring Catalyst Switch.
- VLANs basics.

**Prerequisites**

**Network Essentials (NTW01)** course is recommended.

**Course Objective**

- Networking Mathematics, Terminology, and Models.
- Networking Media: copper, optical, and wireless.
- Cable testing and cabling LANs and WANs.
- Ethernet Operation and 10/100/1000/10 G versions of Ethernet.
- Ethernet Switching.
- IP Addressing, Sub netting.
- TCP/IP Protocols: IP, TCP and UDP, Application Layer Protocols.

**For Further Information:**

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