

CCNA MODULE

DURATION-45 DAY-2HOUR/DAY

- Module 1** Basic of Internetworking
- Internetworking Basics
 - Internetworking Models
- Module 2** OSI Reference Model
- The Application Layer
 - The Presentation Layer
 - The Session Layer
 - The Transport Layer
 - The Network Layer
 - The Data Link Layer
- Module 3** Ethernet Frames And Cabling
- Ethernet Networking
- Half- and Full-Duplex Ethernet
 - Ethernet at the Data Link Layer
 - Ethernet at the Physical Layer
- Ethernet Cabling
- Straight-Through Cable
 - Crossover Cable
 - Rolled Cable
- Data Encapsulation
- Module 4** Introduction To TCP/IP
- DOD And OSI Models
 - TCP/IP Protocol Suite
 - Port Number
 - Internet Protocol
- Module 5** IP Addressing
- Network Addressing And Classes
 - Private IP Address
 - Public IP

- Module 6** Subnetting And Variable Length Subnet Mask
- Create Subnets
 - Subnets Mask
 - Classless Inter-Domain Routing
 - Subnetting Classes Address
 - VLSN
- Module 7** IP Routing
- Routing Basic
 - IP Routing Process
 - First type Static Routing
 - Second type Default Routing
 - Third type Dynamic Routing
- Module 8** Layer 2 Switching And Spanning Tree Protocol(STP)
- Bridging Vs LAN Switching
 - Three Switch Function Layer2
 - Spanning Tree Protocol(STP)
 - Virtual LAN
- Module 9** Network Address Translation(NAT)
- Types NAT
 - NAT Names
- Module 10** Internet Protocol Version (4) and (6)
- Ipv4 And Ipv6 Addressing
 - Address Type
- Module 11** Wide Area Networks
- Defining WAN Terms
 - WAN Connection Types WAN Support
- Module 12** Security And Firewall
- Recongning Security Threats
 - What Is Firewall
 - Firewall Product Study
 - Web filtering