



CISCO ICND2

(Cisco Certified Network Associate CCNA Part 2)

Prepares for CCNA Certification (Exam Code: 200-301)

Course Objective :

This course will students with the knowledge and skills needed to install, configure, operate, and troubleshoot a small enterprise network. It will ensure that students understand and are ready to deploy the latest shifts in technologies and solutions as follows:

- Understanding of Quality of Service (QoS) elements and their applicability.
- How virtualized and cloud services will interact and impact enterprise networks.
- An overview of network programmability and the related controller types and tools that are available to support software defined network architectures A full suite of labs have been developed using the virtual IOS environment with flexible topologies that reinforce concepts with hands-on, guided discovery and challenge labs that align to each lesson module.

Prerequisite:

Completed ICND1 or equivalent.

Certificate Of Attendance :

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

Training Methodology & Materials:

- Integrated learning with practical hands-on sessions, 70% practical / lab-based and 30% theory-based
- Additional and well-designed labs handouts are given to enhance further the courseware given

Training Duration:

Full-Time : 5 Weekdays or 5 Sats

Time : 9am - 6pm

Cisco Certification Exam

This course is the second of two courses in a series that can help you prepare for the **CCNA certification (Exam code: 200-301)**. The first course in the series is Cisco ICND1 (CCNA Part 1).

DETAILED COURSE OUTLINE

1. LAN Switching Technologies

- 1.1 Identify enhanced switching technologies
- 1.2 Configure and verify PVSTP operation

2. IP Routing Technologies

- 2.1 Describe the boot process of Cisco IOS routers
- 2.2 Configure and verify the operation status of a serial interface
- 2.3 Manage Cisco IOS files
- 2.4 Differentiate methods of routing and routing protocols
- 2.5 Configure and verify OSPF (multi-area)
- 2.6 Configure and verify EIGRP (single AS)
- 2.7 Passive Interface

3. IP Services

- 3.1 Recognize high availability (FHRP)
- 3.2 Configure and verify syslog
- 3.3 Describe SNMP v2 and v3

4. Troubleshooting

- 4.1 Identify and correct common network problems
- 4.2 Utilize netflow data
- 4.3 Troubleshoot and resolve spanning tree operation issues
- 4.4 Troubleshoot and resolve routing issues
- 4.5 Troubleshoot and resolve OSPF problems
- 4.6 Troubleshoot and resolve EIGRP problems
- 4.7 Troubleshoot and resolve inter VLAN routing problems
- 4.8 Troubleshoot and resolve WAN implementation issues
- 4.9 Monitor NetFlow statistics
- 4.10 TS EtherChannel problems

5. WAN Technologies

- 5.1 Identify different WAN Technologies
- 5.2 Configure and verify a basic WAN serial connection
- 5.3 Configure and verify a PPP connection between Cisco routers
- 5.4 Configure and verify Frame Relay on Cisco routers
- 5.5 Implement and troubleshoot PPPoE



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