Implementing and Administering Cisco Solutions (CCNA) 200-301 V1.0

Course Content for CCNA

1) Identify the components of a computer network and describe their basic characteristics

2) Understand the model of host-to-host communication

3) Describe the features and functions of the Cisco Internetwork Operating System (IOS®) software

4) Describe LANs and the role of switches within LANs

5) Describe Ethernet as the network access layer of TCP/IP and describe the operation of switches

6) Install a switch and perform the initial configuration

7) Describe the TCP/IP Internet layer, IPv4, its addressing scheme, and subnetting

8) Describe the TCP/IP Transport layer and Application layer

9) Explore functions of routing

10) Implement basic configuration on a Cisco router

11) Explain host-to-host communications across switches and routers

12) Identify and resolve common switched network issues and common problems associated with IPv4 addressing

13) Describe IPv6 main features and addresses, and configure and verify basic IPv6 connectivity

14) Describe the operation, benefits, and limitations of static routing

15) Describe, implement, and verify Virtual Local Area Networks (VLANs) and trunks

16) Describe the application and configuration of inter-VLAN routing

17) Explain the basics of dynamic routing protocols and describe components and terms of Open Shortest Path First (OSPF)

18) Explain how Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP) work

19) Configure link aggregation using EtherChannel

20) Describe the purpose of Layer 3 redundancy protocols

21) Describe basic WAN and VPN concepts

22) Describe the operation of Access Control Lists (ACLs) and their applications in the network

23) Configure Internet access using Dynamic Host Configuration Protocol (DHCP) clients and explain and configure Network Address Translation (NAT) on Cisco routers

24) Describe basic Quality of Service (QoS) concepts

25) Describe the concepts of wireless networks, which types of wireless networks can be built, and how to use Wireless LAN Controllers (WLCs)

26) Describe network and device architectures and introduce virtualization

27) Introduce the concept of network programmability and Software-Defined Networking (SDN) and describe smart network management solutions such as Cisco DNA Center™, Software-Defined Access (SD-Access), and Software-Defined Wide Area Network (SD-WAN)

28) Configure basic IOS system monitoring tools

29) Describe the management of Cisco devices

30) Describe the current security threat landscape

31) Describe threat defense technologies

32) Implement a basic security configuration of the device management plane

33) Implement basic steps to harden network devices

Special Notes and Classes for Project help:

1) Special classes taken by the Highly Experienced Software Professionals of e.Soft.

2) Gives Technical and HR Interview tips of the students and also take a Mock interview at the end of the Project.

3) Every Saturday we take a feedback of the Students regarding

   Project Status.