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Introduction:

This course gives you a broad range of fundamental knowledge for all IT careers. You will learn how to install, operate, configure, and verify a basic IPv4 and IPv6 network. The course covers configuring network components such as switches, routers, and Wireless LAN Controllers; managing network devices; and identifying basic security threats. The course also gives you a foundation in network programmability, automation, and software-defined networking. This course helps you prepare to take the 200-301 Cisco Certified Network Associate (CCNA) exam to earn CCNA certification.

This course consists of 5 days of instructor-led training with hands-on lab practice, plus the equivalent of 3 days of self-paced material.

This course includes additional lab access post class for up to 90 days or 60 hours, whichever is first.

Objectives:

After taking this course, you should be able to:
Identify the components of a computer network and describe their basic characteristics
Understand the model of host-to-host communication
Describe the features and functions of the Cisco IOS Software
Describe LANs and the role of switches within LANs
Describe Ethernet as the network access layer of TCP/IP and describe the operation of switches
Install a switch and perform the initial configuration
Describe the TCP/IP internet Layer, IPv4, its addressing scheme, and subnetting
Describe the TCP/IP Transport layer and Application layer
Explore functions of routing
Implement basic configuration on a Cisco router
Explain host-to-host communications across switches and routers
Identify and resolve common switched network issues and common problems associated with IPv4 addressing

Describe IPv6 main features, addresses and configure and verify basic IPv6 connectivity
Describe the operation, benefits, and limitations of static routing
Describe, implement and verify VLANs and trunks
Describe the application and configuration of inter-VLAN routing
Explain the basics of dynamic routing protocols and describe components and terms of OSPF
Explain how STP and RSTP work
Configure link aggregation using EtherChannel
Describe the purpose of Layer 3 redundancy protocols
Describe basic WAN and VPN concepts
Describe the operation of ACLs and their applications in the network
Configure internet access using DHCP clients and explain and configure NAT on Cisco routers
Describe the basic QoS concepts
Describe the concepts of wireless networks, which types of wireless networks can be built and how to use WLC
Describe network and device architectures and introduce virtualization
Introduce the concept of network programmability and SDN and describe the smart network management solutions like Cisco DNA Center, SD-Access and SD-WAN
Configure basic IOS system monitoring tools
Describe the management of Cisco devices
Describe the current security threat landscape
Describe threat defense technologies
Implement a basic security configuration of the device management plane
Implement basic steps to harden network devices

Course Outline:

1 – EXPLORING THE FUNCTIONS OF NETWORKING

2 – INTRODUCING THE HOST-TO-HOST COMMUNICATIONS MODEL

3 – OPERATING CISCO IOS SOFTWARE

4 – INTRODUCING LANS

5 – EXPLORING THE TCP/IP LINK LAYER

6 – STARTING A SWITCH

7 – INTRODUCING THE TCP/IP INTERNET LAYER, IPV4 ADDRESSING, AND SUBNETS

8 – EXPLAINING THE TCP/IP TRANSPORT LAYER AND APPLICATION LAYER

30 – EXAMINING THE SECURITY THREAT LANDSCAPE

31 – IMPLEMENTING THREAT DEFENSE TECHNOLOGIES

32 – IMPLEMENTING DEVICE HARDENING

Enroll in this course

£4,195.00

Select a start date for your 5 Days course

- 2023-01-09 09:00:00_2023-01-13 17:00:00
- 2023-02-06 09:00:00_2023-02-10 17:00:00
- 2023-03-13 09:00:00_2023-03-17 17:00:00
- 2023-04-17 09:00:00_2023-04-21 17:00:00
- 2023-05-22 09:00:00_2023-05-26 17:00:00
- 2023-06-26 09:00:00_2023-06-30 17:00:00