

Interconnecting Cisco Networking Devices ICND1 - CICND1

Course Details

Fee £1395
Days 5
Course code CICND1

Course Outline

Overview

As the first course of the CCNA the CICND1 focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security. A Student should be able to complete configuration and implementation of a small branch office network under supervision.

Prerequisites

Be familiar with a Windows based computer

Delegates will learn how to

Upon completion of this course, you should be able to:

- Describe how networks function, identifying major components, function of network components and the Open System Interconnection (OSI) reference model.
- Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN and identify switched LAN technology solutions to Ethernet networking issues.
- Describes the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access.
- Describes the reasons for connecting networks with routers and how routed networks transmit data through networks using TCP / IP.
- Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing.
- Use the command-line interface to discover neighbors on the network and managing the routers startup and configuration.



Course outline

- Module 1 - Building a Simple Network
- Module 2 - Ethernet Local Area Networks
- Module 3 - Wireless Local Area Networks
- Module 4 - Exploring the Functions of Routing
- Module 5 - Wide Area Networks
- Module 6 - Network Environment Management

Examinations

640-822

Certification

The Cisco CCENT (Cisco Certified Entry Networking Technician) certification validates the skills required for entry-level network support positions, the starting point for many successful careers in networking. Candidates should have the knowledge and skill to install, operate and troubleshoot a small enterprise branch network, including basic network security. CCENT certification is the first step toward achieving CCNA, which covers medium size enterprise branch networks with more complex connections.

To recertify, pass either the ICND1 or ICND2 exam, or pass any 642 professional level or Cisco Specialist exam (excluding Sales Specialist exams), or pass a current CCIE written exam.

Related Certifications

This course forms part of the following certification track(s):

- CCNA Cisco Certified Network Associate



Interconnecting Cisco Networking Devices ICND2 - CICND2

Course Details

Fee £1395
Days 5
Course code CICND2

Course Outline

Overview

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

Prerequisites

CICND1 / CCENT

Delegates will learn how to

On course completion students will be able to:

- Review how to configure and troubleshoot a small network.
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree.
- Describe routing concepts as they apply to a medium-sized network and discuss considerations when implementing routing on the network.
- Configure, verify, and troubleshoot OSPF.
- Configure, verify, and troubleshoot EIGRP.
- Determine how to apply ACLs based on network requirements, and to configure, verify, and troubleshoot ACLs on a medium-sized network.
- Describe when to use NAT or PAT on a medium-sized network, and configure NAT or PAT on routers.
- Identify and implement the appropriate WAN technology based on network requirements.



Course outline

- Module 1 - Small Network Implementation
- Module 2 - Medium-Sized Switched Network Construction
- Module 3 - Medium-Sized Routed Network Construction
- Module 4 - Single Area OSPF Implementation
- Module 5 - EIGRP Implementation
- Module 6 - Access Control Lists
- Module 7 - Address Space Management
- Module 8 - LAN Extension in to a WAN

Examinations

640-816 or combined exam 640-802

Certification

The Cisco CCNA network associate certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. This new curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This new curriculum also includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).

Related Certifications

This course forms part of the following certification track(s):

- CCNA Cisco Certified Network Associate

