

Course Catalog 2012-2013

CCDA



Cisco Certified Design Associate (CCDA)

Cisco Certified Design Associate (CCDA) validates knowledge required to design a Cisco converged network. With a CCDA certification, a network professional demonstrates the skills required to design routed and switched network infrastructures and services involving LAN, WAN, and broadband access for businesses and organizations. The CCDA curriculum includes designing basic campus, data center, security, voice, and wireless networks.

Course Objectives

- Discuss methodology in network design.
- Describe how to structure and modularize the network design using the Cisco Enterprise Architecture.
- Design the Enterprise Campus and Enterprise Data Center modules.
- Design the Remote Connectivity modules as needed.
- Design a network addressing plan and select a suitable routing protocol for a given network design.
- Evaluate security solutions for the network.
- Discuss the design implications of voice transport across the network.
- Discuss the design implications of wireless networking.

Who Should Attend

- Network engineers, systems administrators, and network designers
- Anyone who wants CCDA certification
- IT managers wanting greater skill in network design

Prerequisite

- CCNA certification is highly recommended but not required
- Familiarity with basic internetworking technologies such as LAN, WAN, bridging, switching, protocols, and network management
- SWITCH and ROUTE are highly recommended

Course Duration

48 Hours, 16 Classes, 3 Hours per class

Course Details

Lesson 01: Network Design Methodology

- Describe SONA and IIN
- Describe the Cisco PPDIOO network lifecycle
- Identify network requirements to support the organization
- Characterize an existing network
- Describe the top down approach to network design
- Describe network management protocols and features

Lesson 02: Network Structure and Modularity

- Describe the Cisco Enterprise Architecture
- Describe the Modular Approach in Network Design
- Describe the Cisco Enterprise Architecture

Lesson 03: Basic Enterprise Campus Networks

- Describe Campus Design considerations
- Design the Enterprise Campus Network
- Design the enterprise data center

Lesson 04: Enterprise Edge and Remote Networks Modules

- List WAN transport technologies
- Identify Business and Technology considerations for WAN design
- Design the Enterprise Edge
- Design Branch and Remote Networks

Lesson 05: IP Addressing and Routing Protocols

- Explain IP addressing
- Describe routing protocols and functions
- Design a routing scheme to support optimal scalability and network performance

Lesson 06: Security Services

- Identify security risks
- Define security policies
- Design the network security plans

Lesson 07: Voice Networking Considerations

- Describe voice architectures and features
- Describe Cisco IP telephony
- Identify design considerations for voice services

Lesson 08: Wireless Networking Considerations

- Define wireless networking technologies and standards
- Describe Cisco Unified Wireless Network architecture
- Design wireless networks for efficiency, security and redundancy

