
Designing for Cisco Internetwork Solutions

Duration: 5 Days **Course Code: DESGN**

Overview:

The Designing for Cisco Internetwork Solutions (DESGN) course will enable learners to gather customer internetworking requirements, identify solutions, and design the network infrastructure and elements to ensure the basic functionality of the proposed solutions. The purpose of this course is to provide learners with the knowledge and skills to achieve associate-level competency in network design. The DESGN course is the first course in a design curriculum that supports the design certification track. The course focuses on the technology and methods currently available.

Target Audience:

This course is designed for: Individuals seeking the Cisco CCDA certification
Individuals seeking the Cisco CCDP certification
Presales and postsales network engineers who are involved in enterprise network design, planning, and implementation

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
 - Discuss methodology in network design
 - Describe how to structure and modularize the network design using the Cisco Network Architectures for the Enterprise
 - Design the enterprise campus, and describe the architectural approach to the data center and virtualization market
 - Design the enterprise edge and remote modules as needed
 - Design a network addressing plan and select suitable routing protocols for a given network design
 - Evaluate security solutions for the network
 - Discuss voice and video networking considerations in the enterprise network design
 - Recommend a design for a basic wireless solution
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Prerequisites:

- CCENT, CCNA Routing and Switching or any Cisco CCIE certification
- To gain the minimum prerequisite skills and knowledge, Cisco strongly recommends knowledge of the following courses:
- Interconnecting Cisco Network Devices Part 1 (ICND1)

Testing and Certification

Recommended as preparation for exam:

- 640-864 - Designing for Cisco Internetwork Solutions
The DESGN course is part of the **Cisco Certified Design Associate (CCDA)** certification.

To achieve CCDA certification, you have to pass the CCENT exam (100-101 ICND1) as a pre-requisite.

Follow-on-Courses:

- ROUTE - Implementing Cisco IP Routing
- ARCH- Designing Cisco Network Service Architectures

These courses are all part of the **Cisco Certified Design Professional (CCDP)** Certification

Content:

Network Design Methodology Overview

- Understanding the Network Architectures for the Enterprise
- Identifying Design Requirements
- Characterizing the Existing Network and Sites
- Using a Top-Down Approach to Network Design

Structuring and Modularizing the Network

- Designing the Network Hierarchy
- Using a Modular Approach in Network Design
- Supporting Services on Borderless Networks
- Identifying Network Management Protocols and Features

Designing Basic Campus and Data Center Networks

- Describing Campus Design Considerations
- Designing the Campus Infrastructure Module
- Describing Enterprise Data Center Considerations
- Describing Enterprise Network Virtualization Tools

Designing Remote Connectivity

- Identifying WAN Technology Considerations
- Designing the Enterprise WAN
- Designing the Enterprise Branch

Designing IP Addressing and Selecting Routing Protocols

- Designing IPv4 Addressing
- Designing IPv6 Addressing
- Reviewing Enterprise Routing Protocols
- Designing a Routing Protocol Deployment

Evaluating Security Solutions for the Network

- Defining Network Security
- Understanding the Cisco SAFE Approach
- Selecting Network Security Solutions

Identifying Voice and Video Networking Considerations

- Integrating Voice and Video Architectures
- Identifying the Requirements of Voice and Video Technologies

Identifying Design Considerations for Basic Wireless Networking

- Cisco Unified Wireless Network Review
- Wireless Network Controller Technology
- Designing Wireless Networks Using Controllers

Further Information:

For More information, or to book your course, please call us on +254 713 027 191

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