

(640-863) DESGN Exam Topics



Exam Description

This exam indicates a foundation or apprentice knowledge of network design for the Cisco converged networks based on SONA (Cisco's Service-Oriented Network Architecture). CCDA certified professionals can design routed and switched network infrastructures and services involving LAN, WAN, and broadband access for businesses and organizations.

Exam Topics

The following information provides general guidelines for the content likely to be included on the Designing Cisco Internetworking exam. However, other related topics may also appear on any specific delivery of the exam.

Describe the Methodology used to design a network

- Describe the Cisco Service-Oriented Network Architecture
- 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

Describe network structure and modularity

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

Design Basic Enterprise Campus Networks

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

Design Enterprise Edge and Remote Network Modules

- Describe the Enterprise Edge, branch, and Teleworker design characteristics
- Describe the functional components of the central site Enterprise Edge
- Describe WAN connectivity between two campuses
- Design the branch office WAN solutions
- Describe Access Network solutions for a Teleworker
- Design the WAN to support selected redundancy methodology
- Identify Design Considerations for a Remote Data Center

Design IP Addressing and Routing Protocols

- Describe IPv4 & IPv6 Addressing
- Identify Routing Protocol Considerations in an Enterprise Network
- Design a Routing Protocol Deployment
- Design a Routing Protocol Deployment--merged with 5.3

Design security services

- Describe the security lifecycle
- Identify Cisco technologies to mitigate security vulnerabilities
- Select appropriate Cisco security solutions and deployment placement

Identify voice networking considerations

- Describe Traditional Voice Architectures and Features
 - Describe Cisco IP Telephony
 - Identify the design considerations for voice services
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Identify wireless networking considerations

- Describe Cisco Unified Wireless Network Architectures and Features
 - Design wireless network using controllers
 - Design wireless network using roaming
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