



**CCDA 640-863 Series Total Items: 12 Total Time: 14.00 hour(s)**

**Summary:**

This study guide will prepare you for the 640-863 DESGN test, which is the required exam to gain the Cisco Certified Design Associate (CCDA) certification. This study guide will prepare you to design LAN, WAN, and broadband networks using Cisco technology. Practice exams are also included, which will allow you to answer questions in the same format that the test will use on exam day, and will provide in-depth instructional feedback on each question to thoroughly cover every subject you'll need to master.

**Certification:**

The test that this series prepares students to take is a part of earning the Cisco Certified Design Associate (CCDA) certification.

**Audience:**

This series is for anyone who wants to achieve CCDA 640-863 certification.

**Features:**

- Flash-based instructional demonstrations applying course concepts.
- Instructional audio with graphics highlighting key points.
- Exercises allow learners to practice in the actual application being studied.
- A Course Topics list contains active hyperlinks, permitting quick access to specific topics.
- Find-A-Word allows learners to look up an unfamiliar term in the Glossary, on the Web, or in a dictionary. In addition, it lets them find other occurrences of the term in the same course.
- Search text enables learners to rapidly search all text within a course to easily retrieve information required.
- Courses challenge the learner with a variety of question formats, including multi-step simulations, true/false, multiple choice, and fill-in-the-blank.
- A skill assessment generates a customized learning path based on the results of a pre-test.
- A glossary provides a reference for definitions of unfamiliar terms.
- Bookmarking tracks the learner's progress in a course.

**Network Design Methodology Time: 2.0 hour(s)****Summary:**

This course gives a foundation of the concepts of network design using Cisco's SONA methodology and the PPDIOO network lifecycle. The course focuses on the top-down approach to network design and emphasizes the importance of meeting both network and organizational requirements.

**Objectives:**

- 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

**Network Structure and Modularity Product Code: I\_8602 Time: 1.0 hour(s)****Summary:**

This course focuses on designing networks for scalability by examining different ways to break down a large-scale network project into manageable parts. It also covers modular network services and designing for high availability.

**Objectives:**

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

**Basic Enterprise Campus Networks Time: 1.0 hour(s)****Summary:**

This course covers the strategies and technologies involved in designing a basic Enterprise Campus Network. It includes considerations and best practice recommendations for building the Enterprise Campus Network and the data center.

**Objectives:**

- Describe Campus Design considerations

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

### **Enterprise Edge and Remote Network Modules Time: 1.0 hour(s)**

#### **Summary:**

This course provides an overview of wide area network design considerations, best practices and technologies for enterprise edge and branch office applications.

#### **Objectives:**

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

### **IP Addressing and Routing Protocols Time: 2.0 hour(s)**

#### **Summary:**

This course focuses on IP addressing schemes to incorporate a well designed logical network hierarchy, as well as routing protocol options to direct network traffic in the most efficient ways while supporting current and future scalability.

#### **Objectives:**

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

### **Security Services Time: 1.0 hour(s)**

#### **Summary:**

This course focuses on identifying security threats. It also covers creating and implementing network security systems and policies using Cisco products, services and recommended design methodologies.

#### **Objectives:**

- Identify security risks
- Define security policies

- Design the network security plans

### **Voice Networking Considerations Time: 1.0 hour(s)**

#### **Summary:**

This course provides a detailed overview of telephony services, beginning with traditional PSTN services and PBX. It also discusses IP telephony technologies and standards, with a focus on the implementation of Cisco IPT networks, including equipment and best practice design considerations.

#### **Objectives:**

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

### **Wireless Networking Considerations Time: 1.0 hour(s)**

#### **Summary:**

This course provides an overview of wireless LAN standards and technologies, and provides a solid basis to design efficient, secure and redundant wireless networks based on the Cisco Unified Network Architecture.

#### **Objectives:**

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

### **Practice Exam 1 Time: 1.0 hour(s)**

#### **Summary:**

This course presents questions that will help you prepare for the CCDA 640-863 Designing for Cisco Internetwork Solutions exam. The feedback for each question provides in-depth background on the topic, including why each incorrect option was wrong and what to look for in correct answers.

#### **Objectives:**

- Complete the practice exam questions

**Practice Exam 2 Time: 1.0 hour(s)****Summary:**

This course presents questions that will help you prepare for the CCDA 640-863 Designing for Cisco Internetwork Solutions exam. The feedback for each question provides in-depth background on the topic, including why each incorrect option was wrong and what to look for in correct answers.

**Objectives:**

- Complete the practice exam questions

**Practice Exam 3 Time: 1.0 hour(s)****Summary:**

This course presents questions that will help you prepare for the CCDA 640-863 Designing for Cisco Internetwork Solutions exam. The feedback for each question provides in-depth background on the topic, including why each incorrect option was wrong and what to look for in correct answers.

**Objectives:**

- Complete the practice exam questions

**Practice Exam 4 Time: 1.0 hour(s)****Summary:**

This course presents questions that will help you prepare for the CCDA 640-863 Designing for Cisco Internetwork Solutions exam. The feedback for each question provides in-depth background on the topic, including why each incorrect option was wrong and what to look for in correct answers.

**Objectives:**

- Complete the practice exam questions