uCertify

# Course Outline

## CCNA Security 210-260 Official Cert Guide




29 Mar 2024

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Here's what you get

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## 1. Course Objective

Prepare for the Cisco CCNA 210-260 exam with the CCNA Security 210-260 Official Cert Guide course and lab. Lab simulates real-world, hardware, software, and command-line interface environments and can be mapped to any text-book, course or training. The course and lab cover the objectives of the Cisco CCNA 210-260 exam and teach candidates how to secure Cisco networks, develop a security infrastructure, recognize threats and vulnerabilities to networks; and mitigate security threats.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

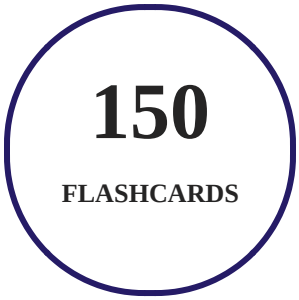
## 3. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.




## 4. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.




## 5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.




## 6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
    1. Best Postsecondary Learning Solution

- **2015**
    1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**
    1. Best Virtual Learning Solution
    2. Best Education Cloud-based Solution
    3. Best College and Career Readiness Solution
    4. Best Corporate / Workforce Learning Solution
    5. Best Postsecondary Learning Content Solution
    6. Best Postsecondary LMS or Learning Platform
    7. Best Learning Relationship Management Solution

- **2017**
    1. Best Overall Education Solution
    2. Best Student Assessment Solution
    3. Best Corporate/Workforce Learning Solution
    4. Best Higher Education LMS or Learning Platform

- **2018**
    1. Best Higher Education LMS or Learning Platform
    2. Best Instructional Solution in Other Curriculum Areas
    3. Best Learning Relationship Management Solution

- **2019**
    1. Best Virtual Learning Solution
    2. Best Content Authoring Development or Curation Solution
    3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## Syllabus

### Chapter 1: Introduction

### Chapter 2: Networking Security Concepts

- Understanding Network and Information Security Basics
- Recognizing Current Network Threats
- Applying Fundamental Security Principles to Network Design
- Review All the Key Topics

### Chapter 3: Common Security Threats

- Network Security Threat Landscape
- Distributed Denial-of-Service Attacks
- Social Engineering Methods
- Malware Identification Tools
- Data Loss and Exfiltration Methods
- Summary
- Review All the Key Topics

## Chapter 4: Implementing AAA in Cisco IOS

- Cisco Secure ACS, RADIUS, and TACACS
- Configuring Routers to Interoperate with an ACS Server
- Configuring the ACS Server to Interoperate with a Router
- Verifying and Troubleshooting Router-to-ACS Server Interactions
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 5: Bring Your Own Device (BYOD)

- Foundation Topics
- Bring Your Own Device Fundamentals

- BYOD Architecture Framework
- Mobile Device Management
- Exam Preparation Tasks
- Review All the Key Topics

## Chapter 6: Fundamentals of VPN Technology and Cryptography

- Understanding VPNs and Why We Use Them
- Cryptography Basic Components
- Public Key Infrastructure
- Putting the Pieces of PKI to Work
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 7: Fundamentals of IP Security

- IPsec Concepts, Components, and Operations
- Configuring and Verifying IPsec
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 8: Implementing IPsec Site-to-Site VPNs

- Planning and Preparing an IPsec Site-to-Site VPN
- Implementing and Verifying an IPsec Site-to-Site VPN in Cisco IOS Devices
- Implementing and Verifying an IPsec Site-to-Site VPN in Cisco ASA
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 9: Implementing SSL VPNs Using Cisco ASA

- Functions and Use of SSL for VPNs
- Configuring Clientless SSL VPNs on ASA
- Using the Cisco AnyConnect Secure Mobility Client
- Troubleshooting SSL VPN
- Review All the Key Topics

## Chapter 10: Securing Layer 2 Technologies

- VLAN and Trunking Fundamentals
- Spanning-Tree Fundamentals
- Common Layer 2 Threats and How to Mitigate Them

- CDP and LLDP
- DHCP Snooping
- Dynamic ARP Inspection
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 11: Network Foundation Protection

- Using Network Foundation Protection to Secure Networks
- Understanding the Management Plane
- Understanding the Control Plane
- Understanding the Data Plane
- Review All the Key Topics

## Chapter 12: Securing the Management Plane on Cisco IOS Devices

- Securing Management Traffic
- Implementing Security Measures to Protect the Management Plane
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 13: Securing the Data Plane in IPv6

- Understanding and Configuring IPv6
- Configuring IPv6 Routing
- Developing a Security Plan for IPv6
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 14: Securing Routing Protocols and the Control Plane

- Foundation Topics
- Securing the Control Plane
- Control Plane Policing
- Securing Routing Protocols
- Exam Preparation Tasks
- Review All the Key Topics

## Chapter 15: Understanding Firewall Fundamentals

- Firewall Concepts and Technologies
- Using Network Address Translation

- Creating and Deploying Firewalls
- Review All the Key Topics

## Chapter 16: Implementing Cisco IOS Zone-Based Firewalls

- Cisco IOS Zone-Based Firewalls
- Configuring and Verifying Cisco IOS Zone-Based Firewalls
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 17: Configuring Basic Firewall Policies on Cisco ASA

- The ASA Appliance Family and Features
- ASA Firewall Fundamentals
- Configuring the ASA
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 18: Cisco IDS/IPS Fundamentals

- IPS Versus IDS
- Identifying Malicious Traffic on the Network

- Managing Signatures
- Monitoring and Managing Alarms and Alerts
- Cisco Next-Generation IPS Solutions
- Review All the Key Topics

## Chapter 19: Mitigation Technologies for E-mail-Based and Web-Based Threats

- Mitigation Technology for E-mail-Based Threats
- Mitigation Technology for Web-Based Threats
- Cisco Content Security Management Appliance
- Review All the Key Topics
- Command Reference to Check Your Memory

## Chapter 20: Mitigation Technologies for Endpoint Threats

- Antivirus and Antimalware Solutions
- Personal Firewalls and Host Intrusion Prevention Systems
- Advanced Malware Protection for Endpoints
- Hardware and Software Encryption of Endpoint Data
- Review All the Key Topics

Chapter 21: Final Preparation

- The Cisco Learning Network
- Lesson-Ending Review Tools
- Recall the Facts
- Practice Configurations
- Using the Exam Engine

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

| 3 | 01:30 |
| --- | --- |
| VIDEOS | HOURS |

## 11. Practice Test

## Here's what you get

| 71 | 2 | 71 |
|---|---|---|
| PRE-ASSESSMENTS QUESTIONS | FULL LENGTH TESTS | POST-ASSESSMENTS QUESTIONS |

## Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 12. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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