



This course supports the assessments for BLV1. The course covers 5 competencies and represents 4 competency units.

## Introduction

### Overview

The course provides an introduction to the core security concepts and skills needed for the installation, monitoring, and troubleshooting of network security features to maintain the integrity, confidentiality, and availability of data and devices.

The exam for this course is not easy, so pay close attention to the following tips so you can pass the exam the first time.

- The concepts presented in this course are not necessarily difficult, but the sheer volume of information can be daunting, especially because you are expected to have internalized each concept—you are not allowed to look things up. Because of this, previous experience may or may not help.
- Do not rely on practice exams; practice exams may help build your confidence, but the real exam will phrase the questions differently, offer dissimilar choices, and might use unfamiliar terminology. Practice exams should only be used to discover weak areas for further studying and review.
- View the exam comments of other students cautiously. Each version of this exam is different. If others advise you to skip studying a piece of technology because it was not on the exam, what they mean is that it was not on their exam—it might be on yours.

### Competencies

This course provides guidance to help you demonstrate the following 5 competencies:

- **Competency 428.6.1: Conceptual Design for Network Infrastructure Security**  
The graduate identifies technical and security issues, and creates conceptual designs for network infrastructure security.
- **Competency 428.6.2: Logical Design for Infrastructure Security**  
The graduate creates logical conceptual designs for network infrastructure security.
- **Competency 428.6.3: Physical Design for Infrastructure Security**  
The graduate creates physical designs for network infrastructure security.
- **Competency 428.6.4: Access Control Strategy**  
The graduate designs access control strategies for various types of data.
- **Competency 428.6.5: Client Infrastructure Security**  
The graduate creates physical designs for client infrastructure security.

### Course Instructor Assistance

As you prepare to successfully demonstrate competency in this subject, remember that course instructors stand ready to help you reach your educational goals. As subject matter experts, mentors enjoy and take pride in helping students become reflective learners, problem solvers, and critical thinkers. Course instructors are excited to hear from you and eager to work with you.



Successful students report that working with a course instructor is the key to their success. Course instructors are able to share tips on approaches, tools, and skills that can help you apply the content you're studying. They also provide guidance in assessment preparation strategies and troubleshoot areas of deficiency. Even if things don't work out on your first try, course instructors act as a support system to guide you through the revision process. You should expect to work with course instructors for the duration of your coursework, so you are welcome to contact them as soon as you begin. Course instructors are fully committed to your success!

## Preparing for Success

The information in this section is provided to detail the resources available for you to use as you complete this course.

### Learning Resources

The learning resources listed in this section are required to complete the activities in this course. For many resources, WGU has provided automatic access through the course. However, you may need to manually enroll in or independently acquire other resources. Read the full instructions provided to ensure that you have access to all of your resources in a timely manner.

#### Enroll in Learning Resources

You will need to enroll in or subscribe to learning resources as a part of this course. You may already have enrolled in these resources for other courses. Please check the "Learning Resources" tab and verify that you have access to the following learning resources. If you do not currently have access, please enroll or renew your enrollment at this time.

*Note: For instructions on how to enroll in or subscribe to learning resources through the "Learning Resources" tab, please see the ["Acquiring Your Learning Resources"](#) page.*

#### CBT Nuggets

You will access the following CBT Nuggets course within this course's activities:

- Cisco CCNA Security 640-554

This course includes over 11 hours of video training comprised of 17 videos, labs, and practice exams. The video training will prepare you for the CCNA Security 640-554 exam and addresses many of the real-world vulnerabilities you may find in current workplace environments.



## Automatically Enrolled Learning Resources

You will be automatically enrolled at the activity level for the following learning resources. Simply click on the links provided in the activities to access the learning materials.

### VitalSource E-Texts

The following textbook is available to you as an e-text within this course. You will be directly linked to the specific readings required within the activities that follow.

- Barker, Keith, Morris, Scott (2012). *CCNA Security 640-554 official cert guide*. Indianapolis, Indiana: Cisco Press. ISBN: 1587204460

*Note: This e-text is available to you as part of your program tuition and fees, but you may purchase hard copies at your own expense through a retailer of your choice. If you choose to do so, please use the ISBN listed to ensure that you receive the correct edition.*

## Other Learning Resources

Use the following learning resource for this course.

### Cisco Learning Network

Cisco hosts the [Cisco Learning Network](#). This network supports individuals working toward Cisco certifications. The Cisco Learning Network provides you access to other individuals currently working on the same certifications as well as exam preparation content. Though you will not be specifically directed to the Cisco Learning Network during this course's activities, please register for an account on this website now; it is free and easy to join.

## 2 Cisco IOS Network Security

The resources provided in this course are separate, independent resources. The best approach to passing the certification exam is by reviewing the material over a period of 8 – 12 weeks. This course is set up to give you the best approach to prepare for the final assessment.

The most successful students for the course engage in all of the learning resources provided.

While some of the material is duplicated between the videos and books, it is often helpful to



review the material from different types of resources. Individuals have different learning styles and will prefer different formats, but all resources should be reviewed.

## **CBT Nuggets**

The CBT Nuggets Cisco CCNA Security 640-554 resource is an excellent introduction and overview to the CCNA Security 640-554 exam.

This topic addresses the following competencies:

- **Competency 428.6.1: Conceptual Design for Network Infrastructure Security**  
The graduate identifies technical and security issues, and creates conceptual designs for network infrastructure security.
- **Competency 428.6.2: Logical Design for Infrastructure Security**  
The graduate creates logical conceptual designs for network infrastructure security.
- **Competency 428.6.3: Physical Design for Infrastructure Security**  
The graduate creates physical designs for network infrastructure security.
- **Competency 428.6.4: Access Control Strategy**  
The graduate designs access control strategies for various types of data.
- **Competency 428.6.5: Client Infrastructure Security**  
The graduate creates physical designs for client infrastructure security.

## **CBT Nuggets**

Complete each section in the following CBT Nuggets course. Proceed through the material in the order presented.

- Cisco CCNA Security 640-554

## **Certification Textbook**

The text book included with this course is the CCNA Security 640-554 Official Cert Guide. The book is broken down into the following parts:

- Part I: Fundamentals of Network Security
- Part II: Protecting the Network Infrastructure
- Part III: Mitigating and Controlling Threats
- Part IV: Using VPNs for Secure Connectivity

This topic addresses the following competencies:

- **Competency 428.6.1: Conceptual Design for Network Infrastructure Security**  
The graduate identifies technical and security issues, and creates conceptual designs for network infrastructure security.
- **Competency 428.6.2: Logical Design for Infrastructure Security**  
The graduate creates logical conceptual designs for network infrastructure security.
- **Competency 428.6.3: Physical Design for Infrastructure Security**  
The graduate creates physical designs for network infrastructure security.
- **Competency 428.6.4: Access Control Strategy**  
The graduate designs access control strategies for various types of data.



- **Competency 428.6.5: Client Infrastructure Security**

The graduate creates physical designs for client infrastructure security.

### **CCNA Security Official Cert Guide**

Access and read the following text:

- [CCNA Security 640-554 Official Cert Guide](#)

## **Final Steps**

Congratulations on completing the activities in this course! This course has prepared you to complete the assessments associated with this course. If you have not already been directed to complete the assessments, schedule and complete your assessments now.

### **First Attempt Checklist**

One of the many things that makes WGU unique is its competency-based education model. If you know the material, all you have to do is prove it by passing the exam. If you can do this, you can accelerate the receipt of your degree.

To make sure you have the best possible chance of passing the exam on your first attempt, the following steps should be completed before you refer to take it:

1. Review the FAQ , exam information and exam blueprints at [Certification Information](#).
2. Review the CBT Nuggets videos and complete the preassessments and postassessments.
3. Review the *Official Cert Guide CCNA Security 640-554*, completing the end of chapter quizzes and reviews.
4. Download and review the ASDM in demo mode. Simulation questions will be using the ASDM, so you should be familiar with interface to not waste time during the actual exam.
5. Make sure you have a thorough understanding of AAA, ZBFW, VPN/Remote Access and Port Security implementations. These are standard topics and are usually found on the exam.

### **Assessment Details**

Complete the Implementing Cisco IOS Network Security Exam (IINS 640-554).

- Number of questions: 55 – 65 (including simulation questions)
- Minimum Passing Score: 849 (scale of 300–1000)
- Time Limit: 90 minutes

For additional examination information, please access the following document and web page:

- [640-554 IINS Exam Topics](#)
- [640-554 IINS Exam Topics](#)

You will need a current, valid CCNA certification to receive the CCNA Security certification from Cisco. You will need to submit your scores to WGU after completing this exam.



*Note: Before you take the Cisco 640-554 IINS exam, you must have successfully passed either*

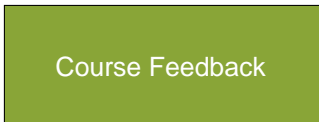
- *the 640-802 CCNA EXAM, or*
- *both the 640-822 ICND1 and 640-816 ICND2 exams earning the CCNA certification.*

*If you have not earned your CCNA, you will not be allowed to take this exam. Please contact the course instructor if you have questions.*

*Note: When scheduling, you may wish to choose a date that is about a month out to give you time to solidify your understanding of any material about which you may have doubt.*

## **Student Support**

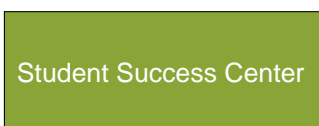
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