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# CCBOOTCAMP

A Division of Network Learning, Inc.®

## Approach and Methodology Cisco® CCIE Security Certification



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## Introduction

Since 1998, CCBOOTCAMP, a division of Network Learning, Inc., a Cisco Learning Partner, has become the industry leader in developing CCIE training products and services. To date, we have helped over fifteen hundred experts obtain their CCIE certification; view our online Hall of Fame, <http://www.ccbootcamp.com/about-ccbootcamp/ccie-hall-of-fame.html>. This document outlines the CCBOOTCAMP recommended approach toward obtaining your CCIE certification using our proven self-study and instructor-led methods.

## Requirements for Certification

There are no formal prerequisites for CCIE certification, meaning no other professional certifications or training courses are required. To obtain certification, all CCIE candidates must first pass a written qualification exam, and then the corresponding hands-on lab exam. However, candidates are expected to have an in-depth understanding of all topics found in the exam blueprints, and are strongly encouraged to have three- to five-years of job-related experience before attempting the certification process. For additional information, please review the exam preparation materials referenced below.

### Step One: CCIE Security Written Exam

The first step is to pass a two-hour written qualification exam, covering networking concepts and Cisco self-defending network components and technologies. You must pass the written exam before you are eligible to schedule the lab exam.

- [Written Exam Information](#)
- [Schedule and Pay for Written Exam](#)

### Step Two: CCIE Security Lab Exam

The second step is an intense, eight-hour lab exam, which tests your ability to configure actual equipment to get the network up and running in a timed-test situation. Please note that you must make your first lab attempt within 18 months of passing your written exam, and you must pass the lab within three years of passing the written exam to achieve CCIE certification.

- [Lab Exam Information](#)
- [Schedule and Pay for Lab Exam](#)

## CCIE Security Written Exam Preparation

To assist you in your preparations for the CCIE Security Written Exam, CCBOOTCAMP offers two products/services:

- 1) CCIE Security Written Exam Study Guide
- 2) CCIE Security 5-Day Instructor-Led Written Exam Boot Camp

### CCIE Security Written Exam Study Guide

The CCIE Security Written Exam Study Guide contains all materials needed to pass the current CCIE Security Written Exam. In this five-hundred page book, every topic in the blueprint is covered in detail. In addition, the guide contains over four-hundred practice questions to test your perspective knowledge and readiness.

Chapter Titles:

- Chapter 1: Security Protocols
- Chapter 2: Application Protocols
- Chapter 3: General Networking
- Chapter 4: Security Technologies
- Chapter 5: Security Applications
- Chapter 6: Security General
- Chapter 7: Cisco General
- Chapter 8: New Topics

### CCIE Security 5-Day Instructor-Led Written Exam Boot Camp

The CCIE Security 5-Day Instructor-Led Written Exam Boot Camp is comprised of four days intense coverage of the CCIE Security Written Exam blueprint, covering all relevant technologies, and providing detailed whiteboard examples of each. This methodology is closely aligned to the approach we use in our advanced lab boot camp. At the end of each day of classroom instruction, every student receives over 150 practice questions to work on in preparation for the next day's instruction. In addition, we include a complimentary eBook version of CCBOOTCAMP's CCIE Security Written Study Guide. Written classes are taught from 9am - 5pm Monday through Thursday, and on Friday, students take their CCIE Security Written Exam.

### Recommended Approach for the CCIE Security Written Exam

We highly recommend our students prepare in advance by spending two to four weeks reviewing and developing an understanding of our CCIE Security Written Exam Study Guide. After a perspective student feels comfortable with the material, we recommend they attend our written boot camp. The written boot camp will round out their individual knowledge base, and will also lay the foundation for the next step – studying for the CCIE Security Lab Exam. Our proven approach to learning has resulted in our students achieving a 97% pass rate. The 3% who do not pass their Friday exams typically falter due to a lack of pre-class preparation and evening practice test question review.

### CCIE Security Lab Exam Preparation

To assist you in your preparations for the CCIE Security lab exam, CCBOOTCAMP offers the following products:

- CCIE Security Virtual Racks Version 3.0
- CCIE Security Home Lab Kits Version 3.0
- CCIE Security Technology Lab Workbook Version 3.0
- CCIE Security 5-Day Instructor-Led Foundation Lab Boot Camp Version 3.0
- CCIE Security Advanced Lab Workbook Version 3.0
- CCIE Security 5-Day Instructor-Led Advanced Lab Boot Camp Version 3.0
- CCIE Security 5-Day Instructor-Led Mock Lab Boot Camp Version 3.0

### **CCIE Security Virtual Racks**

CCBOOTCAMP has spent over \$6M (Cisco list price) on the most advanced Security training racks in the Cisco training industry. CCBOOTCAMP training racks are loaded with the latest Cisco gear, including (but not limited to): 10 Cisco 2811s running 12.4T Adv Enterprise Services, 4 Cisco Catalyst 3560s running 12.2, Cisco 4235 IPS Sensor running 6.x, 2 Cisco ASA-5510s running 8.x, ACS/CA Server running 4.x, Frame-relay switch, Terminal Server, and Test PC. These virtual racks are used for instructor led classroom training and are also available for remote rack rental. Enrollment in the Security program includes rack sessions each lasting eight hours in duration.

### **CCIE Security Home Lab Kits**

CCBOOTCAMP can assemble the perfect home lab to fit most any budget. We include all devices, cables, device memory and miscellaneous parts necessary to meet your requirements. By having CCBOOTCAMP prepare your home lab kit, you can be assured of receiving all relevant items needed for a successful lab.

### **CCIE Security Technology Lab Workbook**

CCBOOTCAMP's new CCIE Security Lab Technology Lab Workbook is designed to specifically prepare students to understand the core technologies of the CCIE® Security lab exam version 3.0. This 300+ page security technology lab workbook breaks down major security topics, such as ASA Technology, IOS Firewalls, and Network Attacks, into specific chapters. Security lab scenarios and well documented solutions including explanations and screen shots are included. The workbook includes the following eight sections:

- Chapter 1: ASA Technology
- Chapter 2: IOS Firewalls
- Chapter 3: VPN Technologies
- Chapter 4: Intrusion Prevention Sensor
- Chapter 5: Identity Management
- Chapter 6: Control Plane and Management Plane Security
- Chapter 7: Advanced Security
- Chapter 8: Network Attacks

### **CCIE Security 5-Day Instructor-Led Foundation Boot Camp**

CCIE Security 5-Day Instructor-Led Foundation Boot Camps are a mixture of lectures and labs with focus on teaching the fundamentals of the technologies and developing a strong understanding of key concepts. Foundation classes are typically for the student who is approximately six months prior to taking their CCIE Lab Exam. Before attending this course, students should be at the CCSP level of training and experience.

Prior passing of the corresponding CCIE Security Written Exam is strongly suggested, but not required. Foundation classes are taught from 9am - 5pm Monday through Friday. Foundation courses are available for access via WebEx; CCBOOTCAMP's online training classroom.

### **CCIE Security Advanced Lab Workbook**

The Advanced Lab Workbook contains ten complete lab scenario simulations. These lab scenarios are sometimes considered more difficult than the actual CCIE Lab Exam itself! Each scenario is a comprehensive mock lab, containing a variety of technologies. With each scenario, a complete walk-through and the solution are included. Each scenario is a step-by-step, brick-by-brick analysis of the many techniques and approaches required to solve the mock lab scenario. If you can only purchase one item from CCBOOTCAMP to help you prepare for the CCIE Lab Exam, make sure to purchase the CCIE Security Advanced Lab Workbook for Version 3.0.

### **CCIE Security 5-Day Instructor-Led Advanced Lab Boot Camp**

The CCIE Security 5-Day Instructor-Led Advanced Lab Boot Camp is for the student in the final stages of preparation to take their CCIE lab exam. The instructor-led advanced lab boot camp is geared toward the CCIE candidate who already has a strong, in-depth understanding of the inter-workings of the required core security topics. Students should be able to easily complete technology focused labs, advanced technology labs, and have their lab exam scheduled within 30 to 45 days of the advanced lab boot camp. CCIE Security Advanced Lab Boot Camps are taught from 9am - 8pm Monday through Thursday and 9am - 5pm on Friday at a variety of locations, and are also available for access via WebEx; CCBOOTCAMP's online training classroom.

### **CCIE Security 5-Day Instructor-Led Mock Lab Boot Camp**

CCBOOTCAMP CCIE mock lab classes are five days of strictly mock labs. The mock lab class is for students who have already mastered all of the advanced lab topics, yet desire additional practice in building speed, logical methods of approach, and solid test-taking conditioning. Each day is spent on tackling a mock-lab scenario with feedback from the mock proctor (instructor) after the day is finished. This boot camp is a great addition to our 5-Day Advanced CCIE Lab Boot Camp. Classes are taught from 9am - 5pm Monday through Friday. All mock lab classes are available for access via WebEx; CCBOOTCAMP's online training classroom.

### **Recommended Approach for the CCIE Security Lab Exam**

In preparation for taking the CCIE Security Lab Exam, CCBOOTCAMP recommends spending two- to three-months focusing on building a strong foundation and understanding of the core security technologies. A great resource for additional, self-paced training is the CCIE Security Technology Lab Workbook, which contains technology-focused labs that concentrate on the core technologies. Upon completion of the workbook, CCBOOTCAMP recommends attending the CCIE Security Foundation Boot Camp.

Once the core network security technologies are completely understood, focus should be placed on interaction between the technologies. The best way to practice is by completing the CCIE Security Advanced Lab Workbook Version 3.0. This process typically takes another two- to three-months. Once the advanced topics and integration of technologies have been mastered, shift focus to concentrate on specific lab exam items, such as speed, exam approach, and recognizing "gotchas."



At this point, CCBOOTCAMP recommends attending the CCIE Security Instructor-Led Advanced Lab Boot Camp, which covers advanced technologies, exam approach, and recognizing gotchas at an intricate level. Attending the advanced lab boot camp should solidify the knowledge required to pass the CCIE Security Lab Exam. However, if additional test taking practice and speed building are still desired, CCBOOTCAMP offers a CCIE Security Instructor-Led Mock Lab Boot Camp, containing five days of strictly mock labs. The mock lab class is for those who have already mastered all of the advanced lab topics, yet desire additional practice in building speed, logical methods of approach, and solid test-taking conditioning.

## Appendix A – Company Information

### About CCBOOTCAMP

In 1998, Network Learning, Inc. began with a vision to develop smarter, more advanced products and services for the Cisco training community. Since our humble beginnings, Network Learning, Inc. has grown into a leading learning partner with several dedicated single, dual, triple and quad CCIE instructors who lead our classes, author our workbooks, develop our labs, support our products, and most importantly, who give our customers the knowledge and skills they need to succeed in today's rapidly evolving networked business world.

Through our specialized Cisco Certification training division, CCBOOTCAMP, we are known for effectively raising the level of integrity, commitment, skill and knowledge with Cisco Certified experts worldwide. No other training company in the world has a higher level of personalized instruction to help you succeed than Network Learning, Inc. Our quality of service and support speaks for itself. Just ask our previously certified customers.

Our state of the art facility houses the finest equipment in the Cisco training industry. We have spent over \$6M (Cisco list price) to date building the most advanced training racks for our students to utilize. We have 16 full CCIE Routing and Switching racks that contain the following: 10 Cisco 2811s running 12.4T, 4 Cisco Catalyst 3560s running EMI code, Frame-relay switch, and Terminal Server. We have 16 full Security racks that contain the following: 10 Cisco 2811s running 12.4T Adv Enterprise Services, 4 Cisco Catalyst 3560s running 12.2, Cisco 4235 IPS Sensor running 6.x, 2 Cisco ASA-5510s running 8.x, ACS/CA Server running 4.x, Frame-relay switch, Terminal Server, and Test PC. We have 16 full Service Provider racks that contain the following: 10 Cisco 2811s running 12.4T, 4 Cisco Catalyst 3560s running EMI code, 1 Cisco 3640 with ATM, 1 Backbone LS1010 connected ATM to backbone Cisco 3640, Frame-relay switch, and Terminal Server. We have 16 full Voice racks that contain the following: 3 Cisco 2811s running 12.4T (HQ, Branch 1, Branch 2), 1 Cisco 2811 for PSTN/WAN cloud, 1 Catalyst 3750G 12.2.x, 7 Cisco 7960G IP Phones, 1 Server with Unified Communications Manager 7.0 Pub, 1 Server with Unified Communications Manager 7.0 Subscriber, 1 Server with Unity Connection 7.0, 1 Server with Presence 7.0, 1 Server with CallCenter 7.0, and 1 NM-CUE (Cisco Unity Express Network Module).

No other training company in the world offers this level of training equipment to their customers.

Because we own and operate our training facility and equipment, we are able to support and scale class sizes from a minimum of two (2) students, to a maximum of ten (10) students for our CCIE boot camp classes, to ensure each student receives ample one-on-one instruction from our CCIE certified trainers. We also provide each individual student their own gear to work with. Our students do not share gear, regardless of which level course they are enrolled in.

Headquartered in the United States in Henderson, Nevada, we offer certification classes and boot camps at remote locations all around the globe, with the majority of our classes held at our state of the art facility, less than six miles from Las Vegas McCarran International Airport. For additional information, visit us at [www.ccbootcamp.com](http://www.ccbootcamp.com).



## Contact CCBOOTCAMP

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Email: [sales@ccbootcamp.com](mailto:sales@ccbootcamp.com)

## Customer Support Web Sites

<http://www.routerie.com> (Routing and Switching / Service Provider)

<http://www.securityie.com> (Security)

<http://www.voiceie.com> (Voice)



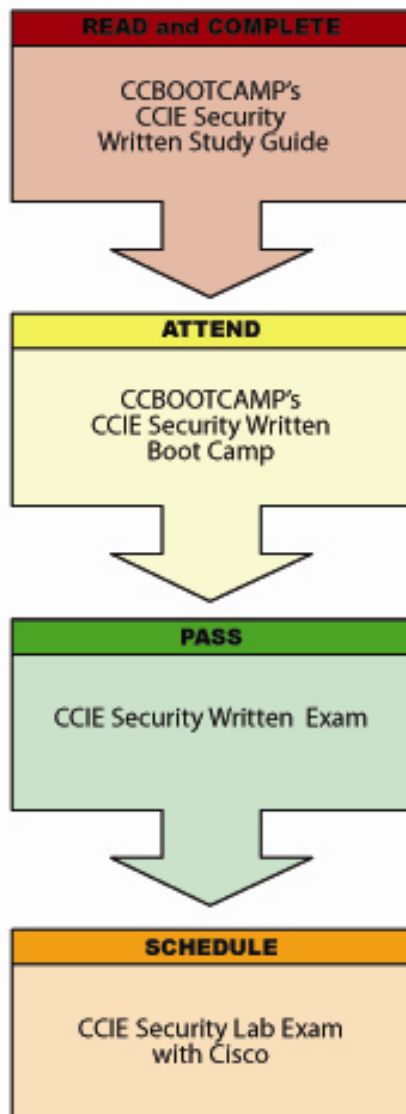
## Appendix B – Online Training

### Online Training Classroom

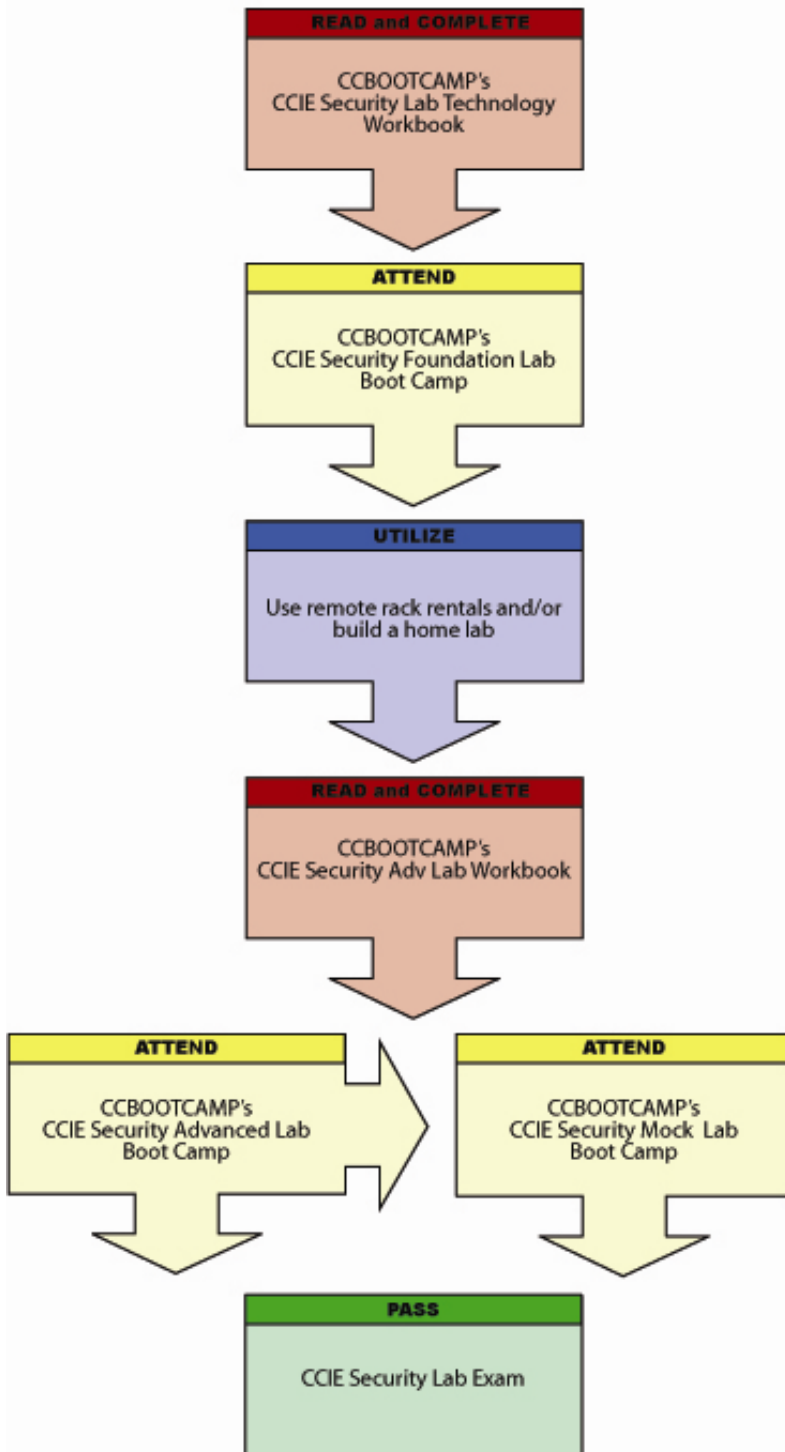
While CCBOOTCAMP prefers that students attend our boot camps in person at one of our facilities, we can accommodate those who cannot be physically present via WebEx; CCBOOTCAMP's online classroom. CCBOOTCAMP utilizes state of the art technology to provide online classrooms for remote training of students around the globe. Our online classrooms provide audio, direct messaging, whiteboard, and shared applications via desktop interaction with our live boot camp instructor. If you would like a demonstration of our online classroom configuration, please email us at: [sales@ccbootcamp.com](mailto:sales@ccbootcamp.com).

## Appendix C – Training Flowchart

# CCBOOTCAMP's Approach and Methodology for the CCIE Security Written Exam



# CCBOOTCAMP's Approach and Methodology for the CCIE Security Lab Exam



## Appendix D – Sample Timeline / Schedule Planning

Task Name	Duration	Qtr 1, 2008			Qtr 2, 2008			Qtr 3, 2008			
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1 <b>CCIE Security Written Exam Study Plan</b>	<b>35 days</b>										
2 Read CCIE Security Written Exam Study Guide	30 days										
3 Attend CCIE Security Written Boot Camp	4 days										
4 Take CCIE Security Written Exam	1 day										
5											
6 <b>CCIE Security Lab Exam Study Plan</b>	<b>101.01 days</b>										
7 <b>CCIE Security Foundation Training</b>	<b>25.01 days</b>										
8 Schedule CCIE Security Lab Exam with Cisco	0.01 days										
9 Attend CCIE Security Foundation Lab Boot Camp	5 days										
10 Enforce CCIE Core Topics (CCIE Security Technology Lab Workbook)	20 days										
11 <b>CCIE Security Technology Intergration/Advanced</b>	<b>76 days</b>										
12 Complete CCIE Security Advanced Lab Workbook Version 2	60 days										
13 Attend CCIE Security Advanced Lab Boot Camp	5 days										
14 Attend CCIE Security Mock Lab Boot Camp	5 days										
15 Re-complete 5 Advanced Labs (increase speed)	5 days										
16 Take CCIE Security Lab Exam	1 day										
17 <b>Email: success@ccbootcamp.com your CCIE#</b>	0.01 days										

## Appendix E – Pre-Lab Checklist

- Remove all possible work/life variables from your mind and your schedule to increase your chances, and to ensure you are physically and mentally ready for your exam!
- Arrive at the testing city/location at least one day prior to your scheduled exam. If your time zone is plus/minus more than six hours difference from the time zone of the Cisco office where you will be taking your exam, plan on arriving at least two days prior to the exam to adjust your body to the local time.
- Drive to the facility where your lab exam will be held in advance to be certain you know how long it will take you to get to the testing location on the day of your exam.
- Find a good, reliable place to eat breakfast near the testing facility.
- The night before your exam, be sure to eat a healthy dinner consisting of protein and complex carbohydrates. Stay away from greasy, fatty, and sugary foods. Also, if you want to eat meat, try to eat chicken or fish, though avoid red meat as it takes your body longer to digest.
- Get a good night's rest. Do not stay up the entire night trying to cram or study last minute materials. Do not take any type of sleep aid that could still be in your system the following day.
- Wake up at least ninety minutes before your exam start time. Shower, get dressed, and go eat breakfast.
- At breakfast, eat only healthy foods. No greasy, fatty, or sugary items should be consumed. Eat fruits, vegetables, oatmeal, etc.
- Arrive at the testing facility at least fifteen minutes prior to your scheduled exam time.
- Relax, breathe, focus, and trust your instincts.

**Good Luck!**