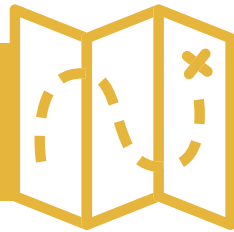


STUDY PLAN



Cisco CCENT/CCNA ICND1 100-105 v3.0

Total Videos: **78** Time: **20 hrs**

Cisco Certified Network Associate Security (CCNA Security)

The [Cisco Certified Entry level Network Technician – Routing and Switching \(CCENT\)](#) certification is, as the name implies, designed for entry-level IT networking professionals. It is the first step toward earning several Associate-level certifications from Cisco, the most popular of which is the [Cisco Certified Network Associate – Routing and Switching \(CCNA R&S\)](#). The CCENT is made up of just one exam, which is covered by CBT Nuggets training:

- [Cisco CCENT/CCNA ICND1 100-105](#)

The CCENT is designed to validate your skills for network support roles and ensures you have the knowledge, skills, and abilities to install, operate, and troubleshoot small enterprise branch networks. The CCENT includes topics such as the operation of IP data networks, LAN switching technologies, IPv6, IP routing technologies, IP services (DHCP, NAT, ACLs), network device security, and basic troubleshooting.

Exam Details

Time allotted for exam: 1.5 hours (90 minutes)

Number of questions: 50-60 questions

Passing score: Cisco does not publish the passing score for its exams.

Question types: Multiple choice/single answer; Multiple choice/multiple answer; Drag and drop; Fill-in-the-blank; Simulation; Testlet; Simlet

Exam registration: [Pearson VUE](#)

Exam cost: \$150 (USD) *Learn more about exam fees from [Pearson VUE](#)

Exam topics: [Interconnecting Cisco Networking Devices Part 1 \(100-105\)](#) (free resource)

Roadmap to Success: CCNA

Learn more about the CCNA certification from the CBT Nuggets blog. The [Roadmap to Success: CCNA R&S](#) is part of a [series of blog posts](#) designed to help learners better understand certification pathways, career opportunities associated with those certifications, and next steps beyond certification.

STUDY STRATEGIES

Learners use a great variety of strategies to attack their training. Here are some options you can choose from to get the most out of your training experience:

Proceed through all CBT Nuggets video training on double-speed to develop a strong overview of the material; Then proceed through all the training for a second time, taking good notes and focusing on deeper learning.

OR

Proceed through all CBT Nuggets video training, taking good notes and focusing on deep learning on the first pass; Then proceed back through all training a second time, using double-speed when appropriate.

Supplement all video training with book study and practical application of knowledge.

Develop a virtual environment or home lab where skills can be practiced.

Use the embedded quiz questions throughout the course to help ensure you have a firm grasp of the material before moving on to the next video.

Learn more about how to get all you can out of your practice exam experience from a quick video by Keith Barker



PRACTICE EXAM STRATEGIES

CBT Nuggets offers practice exams as part of your subscription. You can take the practice exams as many times as you like! Here are some tips to help you take full advantage of this excellent resource:

! PLAN TO TAKE THE PRACTICE EXAM 3 TIMES

FIRST EXAM

Create a baseline against which you can measure your progress with future exams.

Identify areas of weakness in order to direct your training as you move forward.

SECOND EXAM

Measure your progress since your first practice exam! Ask yourself: Are you retaining the information and material you learned at the beginning of your training? Are there areas to which you should return now to ensure your understanding before moving forward?

The results from your second practice exam experience should help you identify areas where you may need to spend extra effort and energy in the training ahead.

THIRD EXAM

Measure your progress against your first two practice exams! Ask yourself: Are you scoring 90% by now? If so, you might be ready for the real thing!

Allow the results from your practice exam to direct your review ahead of your certification exam. Ask yourself: Are you retaining all the material? And are you understanding it well?

KEY

7. Network Fundamentals:
Firewall and IPS

7 min.

The duration of the video.

The number and title for each video corresponds to the number and title you will find on the Cisco CCENT/CCNA ICND1 100-105 Exam Prep course page online (and on your mobile device).

EXTRA MILE

The Extra Mile section of your study plan challenges you to dig a little deeper with your training. The Extra Mile might be a textbook recommendation, supplemental materials downloads, or other resources to help you take your training to the next level. Nothing in the Extra Mile is required, but it is here to help you learn.

Cisco CCENT/CCNA ICND1 100-105

WEEK 1

1. Welcome to ICND1!

8 min.

2. Big Picture:
Network Administration and Engineering

11 min.

3. Big Picture:
Understanding Cisco Certification

17 min.

4. Big Picture:
Building a Cisco Lab

14 min.

5. Network Fundamentals:
Switches and Routers

16 min.

6. Network Fundamentals:
Wireless Access Points

11 min.

7. Network Fundamentals:
Firewall and IPS

7 min.

8. Network Fundamentals:
Speed, Data Size, and Diagrams

18 min.

9. Network Fundamentals:
Cabling – Tips and Terms

15 min.

EXTRA MILE

Explore the [Cisco website](#) to learn more about the CCENT exam, its requirements, and available resources.

Consider purchasing a textbook to supplement your training.

[CCENT/CCNA ICND1 100-105 Official Cert Guide](#)

[CCENT ICND1 Study Guide: Exam 100-105](#)

[CCNA Routing and Switching Complete Study Guide: Exam](#)

WEEK 2

10. Network Fundamentals:
Stars, Mesh, and Hybrid

7 min.

11. IP Fundamentals:
IP Communication Types

11 min.

12. IP Fundamentals:
Defining a Network (Part 1)

14 min.

13. IP Fundamentals:
Public and Private Addressing (Part 2)

13 min.

14. IP Fundamentals:
Gluing IP Communication Together (Part 3)

16 min.

15. IP Fundamentals:
IP Protocols and TCP

17 min.

16. IP Fundamentals:
Completing the End-to-End Story

24 min.

17. IP Fundamentals:
Tools You Can't Live Without

15 min.

18. Core Network Models:
Cisco Three-Tier Architecture

16 min.

EXTRA MILE

Create flashcards to quiz yourself on the content from your training! Or, use existing flashcard resources such as quizlet.com!

Join the [CBT Nuggets Learners Community](#) on Slack! Join other CBT Nuggets learners in a community where you can post questions, share study resources, and connect with IT experts from all over the world.

*Please allow 48 hours for your request to join the community to be processed.

WEEK 3

19. Cisco Network Models:
Introduction to OSI ("Speaking OSI")

7 min.

20. Cisco Network Models:
Practical OSI Communication

18 min.

21. Cisco Network Models:
The TCP/IP Model

3 min.

22. Cisco Network Models:
Encapsulation, Frame Format, and Wireshark

12 min.

23. IOS Fundamentals:
Defining the Purpose of IOS

12 min.

24. IOS Fundamentals:
Enabling a Console Port Connection

10 min.

25. IOS Fundamentals:
IOS Modes and Navigation

17 min.

26. IOS Fundamentals:
Context Sensitive Help and Keyboard Shortcuts

14 min.

27. IOS Fundamentals:
IOS Navigation Lab

2 min.

EXTRA MILE

Take the Practice Exams! Use the results to drive your review and practice ahead of your certification exam*. [Transcender Cisco Cert-100-105](#)

*Keep in mind that you've not completed the training yet so you probably won't ace the exam. This helps you assess how well you are retaining the material you've learned so far!

Learn while you play! Explore the [games available](#) on the [Cisco Learning Network](#) that are designed to help you learn to master critical skills for your CCENT.

WEEK 4

28. IOS Fundamentals:
The File System of Cisco IOS

16 min.

29. IOS Fundamentals:
Configuration Management

14 min.

30. IOS Fundamentals:
The Best Base Configuration Ever

28 min.

31. IOS Fundamentals:
Preparing a Device for Remote Management

14 min.

32. IOS Fundamentals:
Enabling SSH on a Cisco Device

11 min.

33. IOS Fundamentals:
Understanding Interface Syntax

14 min.

34. IOS Fundamentals:
Lab

2 min.

35 Switching Fundamentals:
How Network Switches Work

16 min.

36. Switching Fundamentals:
Finding Network Devices

11 min.

EXTRA MILE

Visit the [CBT Nuggets blog](#) to learn more about how to get the most out of your practice exam experience! Practice, practice, practice!

Learn a bit more about how to be successful on your exam by reading Anthony Sequeira's article, "[CCENT/CCNA Exam Strategies for Success](#)" on [Ciscopress.com](#).

WEEK 5

37. Switching Fundamentals:
Configuring the Switch Management IP Address

8 min.

38. Switching Fundamentals:
Speed and Duplex

10 min.

39. Switching Day-to-Day:
Understanding Port Security

8 min.

40. Switching Day-to-Day:
Configuring Port Security

18 min.

41. Switching Day-to-Day:
Handling the Issue, "The Network is Slow!"

17 min.

42. Switching Day-to-Day:
Key Interface Counters

13 min.

43. Switching VLANs:
The Concept that Changed the Networking World

13 min.

44. Switching VLANs:
Routing Between VLANs

16 min.

45. Switching VLANs:
Trunking VLANs to Other Switches

17 min.

EXTRA MILE

Learn what to expect from the exam by reading Anthony Sequeira's [Exam Profile: Cisco 100-105 ICND1 v3.0](#) article from Pearson.

Practice your skills using your home lab or in your virtual environment! Practice makes perfect!

WEEK 6

46. Switching VLANs:

The Weird and Scary World of VTP

16 min.

47. Switching VLANs:

Configuring and Testing VLANs

19 min.

48. Switching VLANs:

Configuring Trunking and VTP

22 min.

49. Switch Troubleshooting:

Where to Look

25 min.

50. Routing Fundamentals:

How Routing Works

18 min.

51. Routing Fundamentals:

Using Static Routes

31 min.

52. Routing Fundamentals:

Routing Between VLANs

15 min.

53. Routing Fundamentals:

L3 Switching

11 min.

54. Routing Fundamentals:

DHCP in a Routed World

13 min.

EXTRA MILE

Schedule your [certification exam](#) with an approved testing site.

Retake the Practice Exams! Use the results to drive your review and practice ahead of your certification exam*. [Transcender Cisco Cert-100-105](#)

*As a good rule of thumb, you should be scoring about 90% on your practice exam if you expect to pass your certification exam.

WEEK 7

55. Routing Fundamentals:

Configuring DHCP

19 min.

56. Routing Protocols:

What are Routing Protocols?

13 min.

57. Routing Protocols:

Pick Your Flavor!

15 min.

58. Routing Fundamentals:

Understanding RIPv2

12 min.

59. Routing Protocols:

Configuring RIPv2

18 min.

60. IPV4 Subnetting:

Why Are We Doing This?

12 min.

61. IPV4 Subnetting:

Binary Conversion

14 min.

62. IPV4 Subnetting:

Subnetting Based on Network Requirements

32 min.

63. IPV4 Subnetting:

Subnetting Based on Host Requirements

21 min.

EXTRA MILE

OPTIONAL SUPPLEMENTAL LEARNING: [IPV4 Subnetting: The Ultimate Guide](#) with trainer Keith Barker. Consider watching this 16-video course to learn more about IPV4.

Practice your subnetting skills with some [subnetting practice questions](#) from [subnettingpractice.com](#)!

64. IPV4 Subnetting:

Reverse Engineering a Subnet Problem

10 min.

65. IPV4 Subnetting:

Variable Length Subnet Mask (VLSM)

11 min.

66. Access Lists:

Understanding Standard Access Control Lists

18 min.

67. Access Lists:

Configuring Standard Control Lists

26 min.

68. Network Address Translation:

Technology Overview

12 min.

69. Network Address Translation:

Configuring NAT Overload

26 min.

70. Network Address Translation:

Configuring Static NAT

11 min.

71. IPV6:

Welcome to the New Addressing World

8 min.

72. IPV6:

New Communication and Address Types

22 min.

EXTRA MILE

OPTIONAL SUPPLEMENTAL LEARNING: [IPv6 - Concepts, implementation and verification of IPv6](#) with trainer Keith Barker. Consider watching this course to deepen your understanding of IPv6.

Retake the Practice Exams! Use the results to drive your review and practice ahead of your certification exam*. [Transcender Cisco Cert-100-105](#)

*You should be scoring around 90% or better on your practice exam(s) if you expect to be successful in passing your exam and earning your certification.

73. IPv6:

Client Addressing

16 min.

74. IPv6:

Interface Configuration and Static Routing

24 min.

75. Device Management:

Logging via Syslog

16 min.

76. Device Management:

Backing Up and Restoring the IOS and Configuration on a Cisco Device

16 min.

77. Device Management:

The Network Time Protocol (NTP)

12 min.

78. Device Management:

Password Recovery

14 min.

CRAM SESSIONS!

Review training Nuggets where you might need to brush up

3-5 hrs.

EXTRA MILE**OPTIONAL SUPPLEMENTAL LEARNING:**

Exam Walkthrough: [Cisco ICND1/CCENT 100-101](#) with trainers Keith Barker and Anthony Sequeira. Consider watching this 13-video course be fully prepared for the exam experience. Please note that this course addresses ICND1 v2.0, but still retains value and some truly excellent tips for exam success!

Explore the testing conditions and understand what to expect from the experience!

THE BIG DAY!

Take the certification exam.

Get a good night's sleep ahead of your exam!



Brag about it! Tweet us or let us know how your exam went and what you're doing to celebrate your success!

The Next Step

Congratulations! Once you've earned your CCENT, you're ready for the next step. The CCENT certification is a building block that enables learners to earn a variety of certifications from Cisco. After earning the CCENT, most learners take the next step by earning the CCNA - Routing and Switching certification or choose another CCNA specialization.

Among CBT Nuggets learners who have earned the CCENT, the most highly sought-after CCNA certifications are (in order of popularity):

1. [CCNA Routing and Switching](#) (made up of just one additional exam: [ICND2 200-105](#))
2. [CCNA Security](#) (made up of just one additional exam: [210-260 IINS](#))
3. [CCNA Wireless](#) (made up of just one additional exam: [200-355 WIFUND](#))

The CCENT puts you on the path to a career in networking, but also opens up other pathways as well, including virtualization, cloud computing, system administration, and more. Consider these pathways as you move beyond your CCENT. ►

ENTRY LEVEL**INTERMEDIATE****ADVANCED****NETWORKING**

Cisco CCNA
Routing and
Switching

Juniper
JNCIA-Junos

Cisco CCNP
Routing and
Switching

Juniper
JNCIS-ENT

Palo Alto
Networks
Firewall

Cisco CCIE
Routing and
Switching

SECURITY

CompTIA
Security+

Cisco CCNA
Security

Cisco CCNP
Security

EC-Council
Certified Ethical
Hacker

Penetration
Testing with
Linux Tools

(ISC)²
CISSP 2015

VIRTUALIZATION

Cisco CCNA
Data Center

VMware
VCA-DCV

Cisco CCNP
Data Center

Cisco Data
Center Unified
Fabric Support
Specialist

Citrix NetScaler
10.5 1YO-253

VMware
VCP6-DCV

CLOUD COMPUTING

AWS: Technical
Essentials

Google Cloud
Platform
Fundamentals
CP100A

AWS: Certified
Solutions
Architect -
Associate

AWS: Certified
SysOps Admin
Associate

SYSTEM ADMINISTRATION

MCSA
Windows
Server 2012

PowerShell 4
Foundations

MCSA:
Office 365

MCSE: Server
Infrastructure
2012