STUDY PLAN

Cisco CCNA ICND2
200-105 v3.0

Total Videos: 71  Time: 18 hours*

*The time indicated above represents the total time to view all videos in the course, but does not include time spent using virtual labs, practice exams, embedded quizzes, etc.
The Cisco Certified Network Associate - Routing and Switching (CCNA R&S) certification is designed for entry-level networking professionals. The CCNA R&S certification is made up of two exams, both of which are covered by CBT Nuggets training:

- Cisco CCENT/CCNA ICND1 100-105
- Cisco CCNA ICND2 200-105

In order to earn your CCNA R&S, you must complete the ICND1 exam first, which results in the Cisco Certified Entry level Network Technician (CCENT) certification.

The second exam for the CCNA R&S is the ICND2 which tests your knowledge and skills to successfully install, operate, and troubleshoot a small to medium-size enterprise branch network, including topics on LAN switching technologies, IP routing technologies, IP services (FHRP, syslog, SNMP v2 and v3), troubleshooting, and WAN technologies.

### Exam Details

- **Time allotted for exam:** 90 minutes
- **Number of questions:** 45-55 questions per exam
- **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:** $165 (USD)  
  *Learn more about exam fees from Pearson VUE*
- **Exam topics:** Interconnecting Cisco Networking Devices Part 2 (200-105 ICND2) (free resource)
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 test environment where new skills can be practiced.

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

 cbt nuggets

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?
**Cisco CCNA ICND2 200-105**

### WEEK 1

<table>
<thead>
<tr>
<th>1. Welcome to ICND2</th>
<th>2. Review Lab</th>
<th>3. Review Lab</th>
<th>4. Review Lab</th>
<th>5. Review Lab, Step 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7 min.</strong></td>
<td><strong>9 min.</strong></td>
<td><strong>12 min.</strong></td>
<td><strong>12 min.</strong></td>
<td><strong>14 min.</strong></td>
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**1. Welcome to ICND2**

- Explore the [Cisco website](#) to learn more about the CCNA ICND2 200-105 exam, its requirements, and available resources.

**2. Review Lab**

- **Rebuilding ICND1**

**3. Review Lab**

- **Step 1**
  - Base Config

- **Step 2**
  - IP Addressing, Speed, and Duplex

- **Step 3**
  - Enabling RIPv2 Routing

**4. Review Lab**

**5. Review Lab, Step 3**

**EXTRA MILE**

- Set up your lab/test environment for practicing your new knowledge and skills. This week is a heavy labbing week as you work to review ICND1 in order to be ready for all the challenges ICND2 will present.

**Reminder:** each virtual lab experience could take up to 90 minutes to complete.

**Consider purchasing a textbook to supplement your training:**

- [CCNA Routing and Switching ICND2 200-105 Official Cert Guide](#)
- [CCNA ICND2 Study Guide: Exam 200-105](#)
- [CCNA Routing and Switching Complete Study Guide: Exam 100-105, Exam 200-105, Exam 200-125](#)
6. Review Lab Step 4
Static Routes, Default Routes
8 min.

7. Review Lab Step 5
Trunking, VTP, and VLANs
18 min.

8. Review Lab Step 6
Router on a Stick and DHCP Services
14 min.

9. Review Lab Step 7
Network Address Translation
11 min.

10. Review Lab Step 8
Standard ACLs
5 min.

11. Spanning Tree Protocol
What Does STP Do?
14 min.

12. Spanning Tree Protocol
Understanding the Standards
10 min.

13. Spanning Tree Protocol
How the Root Bridge is Elected
16 min.

14. Spanning Tree Protocol
Will the Real Network Topology Step Forward
18 min.

15. Spanning Tree Protocol
Lab - Build, Configure, Test
22 min.

16. Spanning Tree Protocol
Portfast and BPDUGuard
8 min.

17. Switch Services
Stacking and Chassis Aggregation
7 min.

Reminder: each virtual lab experience could take up to 90 minutes to complete.

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.

EXTRA MILE
Take the Practice Exam! Use the results to drive your review and practice ahead of your certification exam*. Transcender Cisco Cert-200-105

*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!

“Learning is not attained by chance, it must be sought for with ardor and diligence.”
 - Abigail Adams
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<tbody>
<tr>
<td>Security at Layer 2</td>
<td>Etherchannel is Awesome!</td>
<td>Configuring Etherchannel Bundles of Joy</td>
<td>Fully Understanding the IOS Boot Process</td>
<td>Lab – Upgrading the IOS</td>
<td>Understanding IOS Licensing</td>
</tr>
<tr>
<td>13 min.</td>
<td>13 min.</td>
<td>21 min.</td>
<td>18 min.</td>
<td>13 min.</td>
<td>6 min.</td>
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**EXTRA MILE**

Learn more about how to be successful on your exam by reading Anthony Sequeira’s article, “CCENT/CCNA Exam Strategies for Success” on Ciscopress.com.

Another light week of labbing. With a little more free time for training, take a few minutes to learn more about the exam from Jeremy Cioara’s webinar, CCNA v3.0: Everything You Need to Know.

<table>
<thead>
<tr>
<th><strong>24. Core Routing</strong></th>
<th><strong>25. Core Routing</strong></th>
<th><strong>26. OSPF</strong></th>
<th><strong>27. OSPF</strong></th>
<th><strong>28. OSPF</strong></th>
<th><strong>29. OSPF Lab</strong></th>
<th><strong>30. OSPF</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Routing Table (does not) Reveal All!</td>
<td>Revising Routing Protocols</td>
<td>Protocol Overview</td>
<td>Neighbor Relationships</td>
<td>The DR and BDR</td>
<td>Base Configuration</td>
<td>DR Election</td>
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<tr>
<td>22 min.</td>
<td>17 min.</td>
<td>15 min.</td>
<td>20 min.</td>
<td>10 min.</td>
<td>30 min.</td>
<td>11 min.</td>
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</tbody>
</table>

**EXTRA MILE**

Revisit your flashcards to ensure your learning! Check out the options at quizlet.com or continue working with your own.

Another lighter week of labbing. This is an excellent moment to do a little extra reading! Learn what to expect from the exam by reading Anthony Sequeira’s Exam Profile: Cisco 200-105 ICND2 v3.0 article from Pearson.

“Practice does not make perfect. Only perfect practice makes perfect.”

– Vince Lombardi
“The results you achieve will be in direct proportion to the effort you apply.”
- Denis Waitley

“No one succeeds without effort. Those who succeed owe their success to perseverance.”
- Ramana Maharshi
This week lightens up on the labbing. So, take advantage of the time to retake the PRACTICE EXAM! Use the results to identify areas you should return to for review.


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Another light week of labbing. This is a good time to learn more about the ICND2 exam with some optional, supplemental training.

Exam Walkthrough: [Cisco ICND2/CCNA 200-101](#)

*Consider watching this 8-video course with trainers Keith Barker and Anthony Sequeira to be fully prepared for the exam experience. Please note that this course addresses ICND2 v2.0, but still retains value and some truly excellent tips for exam success!*
### WEEK 10

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
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<tbody>
<tr>
<td>56. Internet Technology Lab</td>
<td>12 min.</td>
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<tr>
<td>GRE Tunnel Implementation</td>
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</tr>
<tr>
<td>57. Internet Technology Lab</td>
<td>22 min.</td>
</tr>
<tr>
<td>Understanding BGP Fundamentals</td>
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<tr>
<td>58. Internet Technology Lab</td>
<td>34 min.</td>
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<tr>
<td>Basic BGP Configuration</td>
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<tr>
<td>59. Infrastructure Services Lab</td>
<td>17 min.</td>
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<tr>
<td>Understanding HSRP</td>
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<tr>
<td>60. Infrastructure Services Lab</td>
<td>21 min.</td>
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<tr>
<td>Configuring HSRP</td>
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<tr>
<td>61. Infrastructure Services</td>
<td>6 min.</td>
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<tr>
<td>Understanding the QoS Dilemma</td>
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</tbody>
</table>

**EXTRA MILE**

- This is a slightly lighter labbing week. This is a good chance to revisit any labs from earlier in the course where you might need more practice.
- Get back to your flashcards this week. Visit quizlet.com or continue working with your own flashcards.

"Success is not final, failure is not fatal; it is the courage to continue that counts."

- Winston Churchill

### WEEK 11

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
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<tbody>
<tr>
<td>62. Infrastructure Services</td>
<td>20 min.</td>
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<tr>
<td>QoS Tools</td>
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<tr>
<td>63. Infrastructure Services</td>
<td>20 min.</td>
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<tr>
<td>RADIUS and TACACS+</td>
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<tr>
<td>64. Infrastructure Services Lab</td>
<td>38 min.</td>
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<tr>
<td>Configuring Extended ACLs</td>
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<tr>
<td>65. Monitoring Tools</td>
<td>10 min.</td>
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<tr>
<td>Understanding IP SLA</td>
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<tr>
<td>66. Monitoring Tools Lab</td>
<td>17 min.</td>
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<tr>
<td>Configuring IP SLA (and Beyond)</td>
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<tr>
<td>67. Monitoring Tools</td>
<td>12 min.</td>
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<tr>
<td>Understanding SNMP</td>
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**EXTRA MILE**

- Start drilling hard with your flashcards this week. You’re on the home stretch now, so work hard! Visit quizlet.com or continue working with your own flashcards.
- Another light labbing week! Use the extra time to revisit any labs from earlier in the course where you might need more practice.

"There are no secrets to success. It is the result of preparation, hard work, and learning from failure."

- Colin Powell
CRAM SESSIONS!
Review training Nuggets where you might need to brush up.
1-3 hrs.

THE BIG DAY!
Take the exam.

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

EXTRA MILE
Retake the PRACTICE EXAM, one last time! Use the results to direct your final review ahead of the big day.*

Transcender Cisco Cert-200-105
*You should score around 90% or better on your practice exam to earn your certification.

“It’s what you learn after you know it all that counts.”
– John Wooden
CBT Nuggets is committed to providing you with the resources necessary to plan your training, certification, and career pathway effectively and efficiently. Review our Career Pathway blog posts to learn more.

Mapping Your IT Networking Career Pathway
Unlocking Your IT Security Career Pathway
Decoding Your IT SysAdmin Career Pathway
Charting Your IT Cloud and Virtualization Career Pathway
Engineering Your IT DevOps Career Pathway

Roadmap to Success: CCNA Routing and Switching
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.

The CCNA R&S is a building block that enables learners to earn a variety of other certifications from Cisco. After earning the CCNA R&S, most learners take the next step by earning a CCNP (Cisco Certified Network Professional) R&S, or choose another CCNA specialization.

CCNP
For those learners wanting to continue down the path of Routing and Switching, the next step is to earn the Cisco Certified Networking Professional (CCNP) certification. The CCNP R&S certification is made up of three exams, all of which are covered by CBT Nuggets training:

- Cisco CCNP Routing and Switching 300-101 ROUTE
- Cisco CCNP Routing/Switching 300-115 SWITCH
- Cisco CCNP Routing/Switching 300-135 TSHOOT

The CCNA is a prerequisite to any CCNP-level certification.

Other CCNA Options
Once you have earned your CCNA Routing and Switching certification, additional CCNA-level certifications are typically just one exam away. Among CBT Nuggets learners who have earned the CCNA R&S, the most highly sought-after CCNA certifications are (in order of popularity):

- CCNA Security (made up of just one additional exam: 210-260 IINS)
- CCNA Wireless (made up of just one additional exam: 200-355 WIFUND)
- CCNA Data Center (made up of two exams: 640-911 DCICN and 640-916 DCICT)
- CCNA Collaboration (made up of two exams: 210-060 CICD and 210-065 CIVND) [broken into two CBT Nuggets courses: 210-065 CIVND1 and 210-065 CIVND2]
The CCNA R&S puts you on the path to a career in networking, but also opens up other pathways as well. Consider these pathways as you move beyond your CCNA.

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<th>ENTRY LEVEL</th>
<th>INTERMEDIATE</th>
<th>ADVANCED</th>
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<tr>
<td><strong>NETWORKING</strong></td>
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<tr>
<td>Juniper JNCIA-Junos</td>
<td>Cisco CCNP Routing and Switching</td>
<td>Cisco CCIE Routing and Switching</td>
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<tr>
<td><strong>SECURITY</strong></td>
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<tr>
<td>CompTIA Security+</td>
<td>CCNP Security</td>
<td>EC-Council Certified Ethical Hacker</td>
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<tr>
<td>CCNA Security</td>
<td>Juniper JNCIS-ENT</td>
<td>Palo Alto Networks Firewall</td>
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<tr>
<td><strong>VIRTUALIZATION</strong></td>
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<tr>
<td>Cisco CCNA Data Center</td>
<td>Cisco CCNP Data Center</td>
<td>Juniper JNCIS-SEC</td>
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<tr>
<td>VMware VCA-DCV</td>
<td>Cisco Data Center Unified Fabric Support Specialist</td>
<td>MCSE: Private Cloud / MCSE Cloud Platform and Infrastructure</td>
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<tr>
<td><strong>CLOUD COMPUTING</strong></td>
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<tr>
<td>AWS: Technical Essentials</td>
<td>AWS: Certified Solutions Architect- Associate</td>
<td>MCSE: Private Cloud / MCSE Cloud Platform and Infrastructure</td>
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<tr>
<td>VMware VCP6-DCV</td>
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<td>AWS: Certified SysOps Admin Associate</td>
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<td><strong>SYSTEM ADMINISTRATION</strong></td>
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<tr>
<td>MCSA Windows Server 2012</td>
<td>PowerShell 4 Foundations</td>
<td>MCSE: Server Infrastructure / MCSE Cloud Platform and Infrastructure</td>
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<td>MCSA: Office 365</td>
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