



This course supports the assessments for BSV1. The course covers 6 competencies and represents 3 competency units.

Introduction

Overview

Welcome to the Interconnecting Network Devices Course. The exam for this course will earn you your Cisco Certified Network Associate (CCNA) Certification; Cisco calls this the Interconnection Cisco Networking Devices Part 2 Exam (ICND2 200-101). Though the concepts covered in the exam are not necessarily difficult, the sheer volume of information is daunting, and you are asked to know things by memory that you would normally be able to look up; therefore, previous experience with the exam content may or may not be enough for you to pass without following the steps laid out in this course.

One risky predisposition for both the experienced and beginner is to rely on practice exams. Do not make this mistake! The questions on the (ICND2-200-101) exam will be phrased differently than the practice exams, will offer dissimilar choices, and will very likely use different terminology. Unfortunately, most students who only use practice exams as preparation for the (ICND2-200-101) do not internalize this caution until their first failure. Use practice exams for the reason they are intended—to discover weak areas for further studying and review.

As a final word of caution, view the exam comments of other students cautiously. Each version of the (ICND2-200-101) 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.

Watch the following video for an introduction to this course:

Note: View the video in full screen at 720p for best results.

Competencies

This course provides guidance to help you demonstrate the following 6 competencies:

- **Competency 419.3.1: Network Topologies**
The graduate distinguishes and explains network topologies, including protocols, ports, addressing schemes, routing, and wireless communication standards.
- **Competency 419.3.2: Media and Topologies**
The graduate differentiates and explains physical and logical topologies, including wiring standards.
- **Competency 419.3.3: Network Devices**
The graduate differentiates and installs/configures network devices.
- **Competency 419.3.4: Network Connectivity and Performance Methodologies**
The graduate identifies appropriate methodologies for troubleshooting network connectivity and performance issues in a given network environment.



- Competency 419.3.5: Network Troubleshooting Utilities and Analysis
The graduate uses hardware and software utilities to track and maintain network performance in optimized state.
- Competency 419.3.6: Network Security Devices
The graduate differentiates and explains network security devices and methods for troubleshooting common security threats.

Note: The textbook chapters assigned in this course cover the competencies for both the CCNA-ICND1 100-101 and the CCNA-ICND2 200-101 assessments.

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.

**Pearson Network Simulator**

The Pearson network simulator is a software program designed to simulate Cisco routers and switches. After downloading and installing the program, you will use it to practice CLI commands for Cisco hardware. This will allow you to see the interaction between the different devices and prepare for the simulation questions found on the exam.

Cisco Learning Labs

The Cisco online learning labs provide hands-on experience configuring routers and switches. The online environment simulates Cisco hardware, allowing you to practice in the command line interface (CLI). The knowledge of these commands will be necessary to answer the simulation questions found in the exam.

Transcender Practice Exam

The Transcender practice exam allows you to test your subject knowledge after utilizing the other learning resources. The practice exam will pinpoint any subject areas you may have missed during your studies. It also gives you a feel for the assessment exam format and terminology. The practice exam contains questions based on the assessment exam content, including detailed simulation questions to prepare you for what you will see on the exam. The practice exam does not contain the actual exam questions, so avoid memorization of questions and answers, as this will not help you pass the actual exam.

CBT Nuggets

You will access the following CBT Nuggets course within the activities of this course. Contact the Learning Resources department at learningr@wgu.edu to gain access to the following course:

- Cisco CCNA ICND2 200-101

This course includes over 13 hours of interactive training comprised of 27 different videos. This comprehensive training includes an introduction to the exam, network theory and best practice, and demonstrations of Cisco equipment using the Command Line Interface (CLI).

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.

Vital Source 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.

- Odom, W. (2013). *CCENT/CCNA ICND1 200-101* (1st Edition). Indianapolis: Cisco Press. ISBN: 9781587143731

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

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.

Register for an account on this website; it is free and easy to join.

Cisco Networking Devices Content Part II

The resources provided in this course are separate, independent resources. The best approach to passing the certification exam is reviewing all the material from the multiple sources over a period of 8–12 weeks.

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, books, simulator, and practice exams, it is often helpful to review the material from the different sources. Individuals have different learning styles and will prefer different formats, but all resources should be reviewed.

It is generally recommended to approach the content in the following order:

1. videos
2. books
3. simulator
4. practice exams

Take the practice exams last, as they will reveal any areas missed from the other resources. You can then go back to the targeted content and enhance your learning as necessary.

CBT Nuggets

The CBT Nuggets videos are an excellent overview to the exam by presenting all of the material in an easy-to-view video format. They are useful as an introduction to the content and general concepts of the exam.

This topic addresses the following competencies:

- Competency 419.3.1: Network Topologies
The graduate distinguishes and explains network topologies, including protocols, ports, addressing schemes, routing, and wireless communication standards.
- Competency 419.3.2: Media and Topologies
The graduate differentiates and explains physical and logical topologies, including wiring standards.
- Competency 419.3.3: Network Devices
The graduate differentiates and installs/configures network devices.
- Competency 419.3.4: Network Connectivity and Performance Methodologies



graduate identifies appropriate methodologies for troubleshooting network connectivity and performance issues in a given network environment.

- Competency 419.3.5: Network Troubleshooting Utilities and Analysis
The graduate uses hardware and software utilities to track and maintain network performance in optimized state.
- Competency 419.3.6: Network Security Devices
The graduate differentiates and explains network security devices and methods for troubleshooting common security threats.

This section highlights the following learning objectives:

- Explain how a specified common networking protocol functions.
- Explain how a specified commonly used Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) default port functions.
- Explain the difference between Internet protocol and media access addressing formats.
- Evaluate whether the use of a given addressing technology or addressing scheme is appropriate in a given scenario.
- Distinguish between the Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) routing protocols.
- Explain the purpose of routing.
- Discuss the properties of routing.
- Compare specified characteristics of given wireless communication standards.
- Differentiate between the properties of specified standard cable types.
- Differentiate between the characteristics of specified common connector types.
- Differentiate between the characteristics of specified common physical network topologies.
- Differentiate between specified wiring standards.
- Implement an appropriate wiring standard in a given scenario.
- Describe the properties of a given wide area network (WAN) technology type.
- Describe the properties of a given local area network (LAN) technology type.
- Discuss the characteristics of a given common logical network topology.
- Differentiate between specified components of a given wiring distribution.
- Install a specified component of a wiring distribution in a given scenario.
- Differentiate between specified common network devices.
- Install/configure a specified network device in a given scenario.
- Differentiate the functions of specified specialized network devices.
- Differentiate the advanced features of a given switch.
- Describe the function of each layer of the Open System Interconnection (OSI) model.
- Differentiate specified types of configuration management documentation.
- Differentiate specified methods or rationales for network performance optimization.
- Create an action plan for network troubleshooting for a given scenario.
- Create an action plan for measuring effectiveness of performance improvement for a given scenario.
- Differentiate troubleshooting methodologies for a given network physical connectivity issue associated with a specified hardware connectivity device.
- Differentiate troubleshooting methodologies for a given network logical connectivity



issue associated with a specified system or network configuration issue.

- Document the solution determined by troubleshooting a given wireless network connectivity issue associated with a specified type or level of security method.
- Describe a specified network utility for monitoring network performance and connectivity.
- Describe a specified network utility for troubleshooting a given network connectivity issue associated with a hardware device.
- Describe a specified network utility for troubleshooting a given network connectivity issue associated with a system or network configuration.
- Troubleshoot a given network performance issue using a specified network utility or system tool.
- Apply a specified network utility to trace the cause of a given network performance or connectivity issue.
- Apply an appropriate command line interface tool to interpret the output or to verify functionality in a given scenario.
- Identify the appropriate network scanner to perform a given type of analysis.
- Utilize an appropriate hardware tool to troubleshoot or maintain a given network.
- Use an appropriate network utility to measure the effects of a specified solution to a given problem.
- Differentiate the functions of specified hardware and software security devices.
- Differentiate common features of firewalls.
- Specify security guidelines to follow when securing access to network using a specified network security device.
- Differentiate specified methods of user authentication.
- Differentiate specified issues that affect device security.
- Differentiate specified common security threats or mitigation techniques.

CBT Nuggets

Each CBT Nuggets video covers a different concept found on the exam. Because each video is intended to build upon those prior to it, you should complete the videos in sequential order.

Complete each section in the following CBT Nuggets course using the links below:

- [Cisco CCNA ICND2 200-101](#)

Note: Please remember to proceed in order.

Video Titles

- Welcome to ICND2
- ICND1 Review Lab, Part 1: Base Configurations
- ICND1 Review Lab, Part 2: IP Addressing
- ICND1 Review Lab, Part 3: OSPF Configuration
- ICND1 Review Lab, Part 4: VLAN Configuration
- ICND1 Review Lab, Part 5: NAT and Security
- Spanning Tree Protocol: Understanding STP
- Spanning Tree Protocol: Enhancements to STP



- EtherChannel: Bundling Gobs of Bandwidth
- First Hop Redundancy Protocols: Understanding HSRP, VRRP, and GLBP
- First Hop Redundancy Protocols: Configuring HSRP, VRRP, and GLBP
- First Hop Redundancy Protocols: Configuring HSRP, VRRP, and GLBP, Part 2
- WAN: Understanding WAN Connection Types
- Frame Relay: Understanding Frame Relay
- Frame Relay: Understanding Frame Relay, Part 2
- Frame Relay: Configuring Frame Relay
- VPNs: Understanding Big-Picture VPN Concepts
- VPNs: Understanding Authentication, Encryption, Hashing
- EIGRP: Distance Vector and Link State Routing Protocols
- EIGRP: The Benefits, Terms, and Metrics of EIGRP
- EIGRP: Configuring EIGRP
- OSPF: Concept Review and Neighbor Communication
- OSPF: Multi-Area Configuration and Verification
- Device Management: Configuration, IOS, and Licensing Management
- Device Management: SNMP, Syslog, and Netflow
- IPv6: Concept Review and General Troubleshooting
- IPv6: Routing Protocol Configuration

Cisco Press Book and Labs

The textbook included with this course is the official certification guide, *CCNA ICND2 200-101* (1st Edition). The book is broken down into the following seven major parts:

- Part I: LAN Switching
- Part II: IP Version 4 Routing
- Part III: IP Version 4 Routing Protocols
- Part IV: Wide Area Networks
- Part V: IP Version 6
- Part VI: Network Management
- Part VII: Final Review
- Part VIII: Appendixes

This topic addresses the following competencies:

- Competency 419.3.1: Network Topologies
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- Competency 419.3.2: Media and Topologies
The graduate differentiates and explains physical and logical topologies, including wiring standards.
- Competency 419.3.3: Network Devices
The graduate differentiates and installs/configures network devices.
- Competency 419.3.4: Network Connectivity and Performance Methodologies
The graduate identifies appropriate methodologies for troubleshooting network connectivity and performance issues in a given network environment.



- Competency 419.3.5: Network Troubleshooting Utilities and Analysis
The graduate uses hardware and software utilities to track and maintain network performance in optimized state.
- Competency 419.3.6: Network Security Devices
The graduate differentiates and explains network security devices and methods for troubleshooting common security threats.

This section highlights the following learning objectives:

- Explain how a specified common networking protocol functions.
- Explain how a specified commonly used Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) default port functions.
- Explain the difference between Internet protocol and media access addressing formats.
- Evaluate whether the use of a given addressing technology or addressing scheme is appropriate in a given scenario.
- Distinguish between the Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) routing protocols.
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- Compare specified characteristics of given wireless communication standards.
- Differentiate between the properties of specified standard cable types.
- Differentiate between the characteristics of specified common connector types.
- Differentiate between the characteristics of specified common physical network topologies.
- Differentiate between specified wiring standards.
- Implement an appropriate wiring standard in a given scenario.
- Describe the properties of a given wide area network (WAN) technology type.
- Describe the properties of a given local area network (LAN) technology type.
- Discuss the characteristics of a given common logical network topology.
- Differentiate between specified components of a given wiring distribution.
- Install a specified component of a wiring distribution in a given scenario.
- Differentiate between specified common network devices.
- Install/configure a specified network device in a given scenario.
- Differentiate the functions of specified specialized network devices.
- Differentiate the advanced features of a given switch.
- Describe the function of each layer of the Open System Interconnection (OSI) model.
- Differentiate specified types of configuration management documentation.
- Differentiate specified methods or rationales for network performance optimization.
- Create an action plan for network troubleshooting for a given scenario.
- Create an action plan for measuring effectiveness of performance improvement for a given scenario.
- Differentiate troubleshooting methodologies for a given network physical connectivity issue associated with a specified hardware connectivity device.
- Differentiate troubleshooting methodologies for a given network logical connectivity issue associated with a specified system or network configuration issue.
- Document the solution determined by troubleshooting a given wireless network



- connectivity issue associated with a specified type or level of security method.
- Describe a specified network utility for monitoring network performance and connectivity.
- Describe a specified network utility for troubleshooting a given network connectivity issue associated with a hardware device.
- Describe a specified network utility for troubleshooting a given network connectivity issue associated with a system or network configuration.
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- Use an appropriate network utility to measure the effects of a specified solution to a given problem.
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- Differentiate common features of firewalls.
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- Differentiate specified issues that affect device security.
- Differentiate specified common security threats or mitigation techniques.

Official Certification Guide

[CCNA ICND2 200-101 \(1st Edition\)](#) is the official Cisco guide to the exam. The book is an 800+ page reference containing all of the in-depth technical details needed to pass the exam. It is most useful for the multiple-choice questions you will find on the official certification exam.

Pay close attention to the "Do I Know This Already?" quizzes at the beginning of each chapter and the exam preparation tasks at the end of each chapter as you review the book.

Read and review the textbook until you understand the content and can pass the certification exam.

Note: Although the book presents the same content as the CBT Nuggets resources, it often helpful to review material from different sources to fully understand and retain a full breadth of the content.

Pearson Network Simulator

Work through the provided labs to help you apply the information from the videos and the textbook.

Typing the actual CLI commands will allow you to see the interaction between the different devices. It will also prepare you for the simulation questions found on the exam. The following chart is an outline of the available labs:



Skill Builder

- Part 1: VLANs and Trunking
- Part 2: IP Addressing and Routing
- Part 3: IP Routing Protocols
- Part 4: WAN
- Part 5: Scaling IP

Configuration Scenarios

- Part 1: VLANs and Trunking
- Part 2: IP Addressing and Routing
- Part 3: IP Routing Protocols
- Part 4: WAN
- Part 5: Scaling IP

Troubleshooting Scenarios

- Part 1: Troubleshooting Labs

Cisco Resources

The Cisco learning labs environment provides hands-on experience for all of the CLI commands of Cisco routers and switches. This allows you to practice what you have learned from both the videos and textbook. It is also useful for the simulation questions found on the exam.

This topic addresses the following competencies:

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This section highlights the following learning objectives:



- Explain how a specified common networking protocol functions.
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- Describe a specified network utility for troubleshooting a given network connectivity issue associated with a system or network configuration.
- Troubleshoot a given network performance issue using a specified network utility or system tool.
- Apply a specified network utility to trace the cause of a given network performance or



connectivity issue.

- Apply an appropriate command line interface tool to interpret the output or to verify functionality in a given scenario.
- Identify the appropriate network scanner to perform a given type of analysis.
- Utilize an appropriate hardware tool to troubleshoot or maintain a given network.
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- Differentiate specified methods of user authentication.
- Differentiate specified issues that affect device security.
- Differentiate specified common security threats or mitigation techniques.

Cisco Learning Labs

Work through the provided labs to help you apply the information from the videos and the textbook.

Typing the actual CLI commands will allow you to see the interaction between the different devices. It will also prepare you for the simulation questions found on the exam.

The following chart is an outline of the available labs:

ICND2 Lab R-1	Review
ICND2 Lab 1-1	Troubleshooting VLANs and Trunks
ICND2 Lab 1-2	Optimizing STP
ICND2 Lab 1-3	Configuring EtherChannel
ICND2 Lab 2-1	Troubleshooting IP Connectivity
ICND2 Lab 3-1	Implementing EIGRP
ICND2 Lab 3-2	Troubleshooting EIGRP
ICND2 Lab 3-3	Implementing EIGRP for IPv6
ICND2 Lab 4-1	Configuring Multiarea OSPF
ICND2 Lab 4-2	Troubleshooting Multiarea OSPF
ICND2 Lab 4-3	Configuring OSPF for IPv6
ICND2 Lab 5-1	Configuring and Troubleshooting a Serial Connection
ICND2 Lab 5-2	Establishing a Frame Relay WAN
ICND2 Lab 5-3	Establishing a GRE Tunnel
ICND2 Lab 6-1	SNMP and Syslog Basic Configuration
ICND2 Lab 6-2	Analyzing Netflow Data (Paper Lab)



ICND2 Lab 6-3a	Password Recovery on a Cisco Router
ICND2 Lab 6-3b	Backing up a Cisco IOS Image
ICND2 Lab 6-3c	Managing Configuration File for a Cisco IOS Device
ICND2 Lab 6-3d	Verify Cisco IOS Licensing
ICND2 Lab S-1	ICND2 Superlab

Practice Exams

The practice exams will reveal any content areas in which you may still be weak. Please review areas in which you are not scoring well before taking the real exam.

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 chance possible to pass the exam on your first attempt, the following items should be completed:

1. Review the [Cisco CCNA ICND2 200-101](#) videos.
2. Review the Official Certification Guide, completing the end-of-chapter quizzes and reviews.
3. Complete the lab exercises on both the Pearson Network Simulator and the Cisco Online Learning Labs. CLI commands will be required for the simulation questions on the exams, especially the various SHOW commands and their output.
4. Make sure you have a thorough understanding of VLSM subnetting. Be prepared to identify correct network addresses, broadcast addresses, and number of hosts for /24 - /32 subnets.
5. Test your exam readiness with the online [Transcender practice exam](#). Don't just try for a passing score, review the questions you missed and understand why you got them wrong.

If you have completed the steps above and you feel comfortable with all of the concepts presented, you are most likely ready to attempt the exam.

If you fail your first attempt of the exam, you will be required to get in contact with the course instructor to see what went wrong and how you can prepare to make sure your second attempt is a success. Only after determining you are ready, your course instructor will approve your request to make another exam attempt.



The WGU Library

The WGU Library

The [WGU Library](#) is available online to WGU students 24 hours a day.

For more information about using the WGU Library, view the following videos on [The WGU Channel](#):

Introducing the WGU library

Note: To download this video, right-click the following link and choose "Save as...": [download video](#).

Searching the WGU library

Note: To download this video, right-click the following link and choose "Save as...": [download video](#).

Center for Writing Excellence: The WGU Writing Center

If you need help with any part of the writing or revision process, contact the Center for Writing Excellence (CWE). Whatever your needs—writing anxiety, grammar, general college writing concerns, or even ESL language-related writing issues—the CWE is available to help you. The CWE offers personalized individual sessions and weekly group webinars. For an appointment, please e-mail writingcenter@wgu.edu.

Feedback

WGU values your input! If you have comments, concerns, or suggestions for improvement of this course, please submit your feedback using the following form:

- [Course Feedback](#)