

uCertify

Course Outline

**Cisco CCNA 200-125 Certified
Network Associate**



Lesson



Practice test

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Videos and How To

9. Practice Test

Here's what you get

Features

10. Post-Assessment

1. Course Objective

Cisco CCNA 200-125 Certified Network Associate course is interactive learning resources that help candidates prepare for the Cisco CCNA 200-125 certification exam. The course covers the 20-125 exam objectives and includes topics such as TCP/IP networking; LANs; WANs; IPv4 addressing and routing; TCP/IP transport and application; command-line interface; switch interfaces; switch management; troubleshooting Ethernet LANs; and many more. The course also provides knowledge and skills for subnet designing; operating Cisco routers; IPv4 addressing with its exam preparation material.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

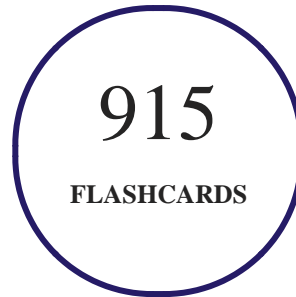
3. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

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QUIZZES

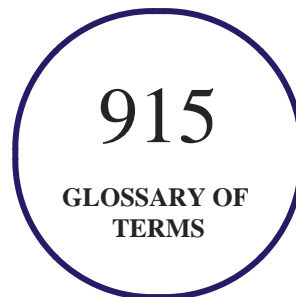
4. Flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more

accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
 1. Best Postsecondary Learning Solution
- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution

3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

• **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

• **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

• **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

• **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

• **2020**

1. Best College and Career Readiness Solution

2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

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- Part Features
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Chapter 2: Introduction to TCP/IP Networking

- Perspectives on Networking
- TCP/IP Networking Model
- OSI Networking Model

- Lesson Summary
- Review All the Key Topics

Chapter 3: Fundamentals of Ethernet LANs

- An Overview of LANs
- Building Physical Ethernet Networks with UTP
- Sending Data in Ethernet Networks
- Lesson Summary
- Review All the Key Topics

Chapter 4: Fundamentals of WANs

- Leased-Line WANs
- Ethernet as a WAN Technology
- Accessing the Internet
- Lesson Summary
- Review All the Key Topics

Chapter 5: Fundamentals of IPv4 Addressing and Routing

- Overview of Network Layer Functions

- IPv4 Addressing
- IPv4 Routing
- IPv4 Routing Protocols
- Other Network Layer Features
- Lesson Summary
- Review All the Key Topics

Chapter 6: Fundamentals of TCP/IP Transport and Applications

- TCP/IP Layer 4 Protocols: TCP and UDP
- TCP/IP Applications
- Lesson Summary
- Review All the Key Topics

Chapter 7: Using the Command-Line Interface

- Accessing the Cisco Catalyst Switch CLI
- Configuring Cisco IOS Software
- Lesson Summary
- Review All the Key Topics

- Command References

Chapter 8: Analyzing Ethernet LAN Switching

- LAN Switching Concepts
- Verifying and Analyzing Ethernet Switching
- Lesson Summary
- Review All the Key Topics

Chapter 9: Configuring Basic Switch Management

- Securing the Switch CLI
- Enabling IPv4 for Remote Access
- Miscellaneous Settings Useful in Lab
- Lesson Summary
- Review All the Key Topics

Chapter 10: Configuring Switch Interfaces

- Configuring Switch Interfaces
- Port Security
- Lesson Summary

- Review All the Key Topics

Chapter 11: Analyzing Ethernet LAN Designs

- Analyzing Collision Domains and Broadcast Domains
- Analyzing Campus LAN Topologies
- Analyzing LAN Physical Standard Choices
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Chapter 12: Implementing Ethernet Virtual LANs

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- VLAN and VLAN Trunking Configuration and Verification
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Chapter 13: Troubleshooting Ethernet LANs

- Perspectives on Applying Troubleshooting Methodologies
- Analyzing Switch Interface Status and Statistics

- Predicting Where Switches Will Forward Frames
- Analyzing Port Security Operations on an Interface
- Analyzing VLANs and VLAN Trunks
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Chapter 14: Perspectives on IPv4 Subnetting

- Introduction to Subnetting
- Analyze Subnetting and Addressing Needs
- Make Design Choices
- Plan the Implementation
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Chapter 15: Analyzing Classful IPv4 Networks

- Classful Network Concepts
- Practice with Classful Networks
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Chapter 16: Analyzing Subnet Masks

- Subnet Mask Conversion
- Identifying Subnet Design Choices Using Masks
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- Review All the Key Topics
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Chapter 17: Analyzing Existing Subnets

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- Analyzing Existing Subnets: Binary
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Chapter 18: Operating Cisco Routers

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- Enabling IPv4 Support on Cisco Router Interfaces
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Chapter 19: Configuring IPv4 Addresses and Static Routes

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Chapter 20: Learning IPv4 Routes with RIPv2

- RIP and Routing Protocol Concepts
- Core RIPv2 Configuration and Verification
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- Troubleshooting RIPv2
- Lesson Summary
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Chapter 21: DHCP and IP Networking on Hosts

- Implementing and Troubleshooting DHCP
- Verifying Host IPv4 Settings
- IPv4 Address Types
- Lesson Summary
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Chapter 22: Subnet Design

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- Finding All Subnet IDs
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Chapter 23: Variable-Length Subnet Masks

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- Finding VLSM Overlaps
- Adding a New Subnet to an Existing VLSM Design
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Chapter 25: Troubleshooting IPv4 Routing

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Chapter 26: Basic IPv4 Access Control Lists

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Chapter 28: Network Address Translation

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Chapter 29: Fundamentals of IP Version 6

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Chapter 30: IPv6 Addressing and Subnetting

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Chapter 34: Device Management Protocols

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Chapter 35: Device Security Features

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Chapter 51: Appendix M: Topics from Previous Editions

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- OSPF Configuration

- OSPF Single-Area Configuration
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- IOS Reorders ACEs
- IOS Renumbers ACL Line Numbers, by 10s, at Reload
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Chapter 59: VLAN Trunking Protocol

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Chapter 60: Miscellaneous LAN Topics

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Chapter 61: Understanding OSPF Concepts

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Chapter 66: Implementing External BGP

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Chapter 68: Private WANs with Ethernet and MPLS

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Chapter 75: Troubleshooting IPv4 Routing

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Chapter 77: Implementing OSPF for IPv6

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Chapter 79: IPv6 Access Control Lists

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- Always Get the Latest at the Book's Product Page
- Technical Content
- The APIC-EM Path Trace ACL Analysis Tool

Chapter 86: Appendix C: Practice for Chapter 16: Basic IPv4 Access Control Lists

- Practice Problems
- Answers to Earlier Practice Problems

Chapter 87: Appendix D: Learning IPv4 Routes with RIPv2

- RIP and Routing Protocol Concepts
- Core RIPv2 Configuration and Verification
- Optional RIPv2 Configuration and Verification

- Troubleshooting RIPv2
- Review All the Key Topics
- Command References

Chapter 88: Appendix E: Understanding Frame Relay Concepts

- Frame Relay Overview
- Frame Relay Addressing
- Network Layer Addressing with Frame Relay
- Review All the Key Topics

Chapter 89: Appendix F: Implementing Frame Relay

- Frame Relay Configuration and Verification
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- Review All the Key Topics
- Command Reference to Check Your Memory

Chapter 90: Appendix G: IPv4 Troubleshooting Tools

- “Do I Know This Already?” Quiz
- Problem Isolation Using the ping Command

- Problem Isolation Using the traceroute Command
- Telnet and SSH
- Review All the Key Topics

Chapter 91: Appendix H: Topics from Previous Editions

- Dial Access with Modems and ISDN
- Gateway Load Balancing Protocol (GLBP)
- HSRP Tracking
- (OSPFv2) Link-State Advertisements
- (OSPFv3) Link-State Advertisements
- IPv6 Routing Protocols as Discussed in This Book

Chapter 92: Appendix I: Exam Topic Cross Reference

- ICND2 200-105 Exam Topics in Numeric Order
- Mapping of Book Lessons to ICND2 200-105 Exam Topics
- CCNA R&S Exam Topics with ICND2 Subset Noted

Chapter 93: Module 1: Fundamentals of Networking

- Lesson 1: Network Reference Models and Protocols

- Lesson 2: Infrastructure Components
- Lesson 3: Network Architecture
- Lesson 4: Network Cabling
- Lesson 5: Basic Troubleshooting
- Lesson 6: IPv4 Addressing
- Lesson 7: IPv6 Addressing

Chapter 94: Module 2: LAN Switching

- Lesson 8: Fundamentals of Ethernet
- Lesson 9: Basic Cisco Catalyst Switch Configuration
- Lesson 10: Virtual LANs (VLANs)
- Lesson 11: Trunking
- Lesson 12: Troubleshooting Switch Operation
- Lesson 13: Basic Switch Security
- Lesson 14: Voice VLAN's

Chapter 95: Module 3: IP Routing

- Lesson 15: Basic Router Operation

- Lesson 16: Basic Router Configuration and Verification
- Lesson 17: Routing Fundamentals
- Lesson 18: Routing Information Protocol (RIP)

Chapter 96: Module 4: Network Services

- Lesson 19: Dynamic Host Configuration Protocol (DHCP)
- Lesson 20: Network Address Translation (NAT)
- Lesson 21: Network Time Protocol (NTP)

Chapter 97: Module 5: Network Management

- Lesson 22: Network Management Protocols
- Lesson 23: Device Management
- Lesson 24: Troubleshooting with Cisco IOS Tools

Chapter 98: Module 6: Final Preparation

- Lesson 25: How to Register for the Exam
- Lesson 26: Study Strategies
- Lesson 27: What to do on Exam Day

Chapter 99: Module 1: LAN Switching

- Lesson 1: VLAN Trunking Protocol (VTP)
- Lesson 2: Spanning Tree Protocol (STP)
- Lesson 3: EtherChannel

Chapter 100: Module 2: IP Routing

- Lesson 4: Routing Between VLANs
- Lesson 5: Open Shortest Path First (OSPF)
- Lesson 6: Enhanced Interior Gateway Routing Protocol (EIGRP)

Chapter 101: Module 3: Wide Area Networks(WANs)

- Lesson 7: Point-to-Point Protocol (PPP)
- Lesson 8: Options for WAN Connectivity
- Lesson 9: WAN Topologies
- Lesson 10: Border Gateway Protocol (BGP)

Chapter 102: Module 4: Network Services

- Lesson 11: Hot Standby Router Protocol (HSRP)
- Lesson 12: Quality of Services (QoS)

- Lesson 13: Cloud Resources

Chapter 103: Module 5: Securing Network Devices

- Lesson 14: Advanced Switch Security
- Lesson 15: Access Control List (ACLs)

Chapter 104: Module 6: Network Management

- Lesson 16: Network Management Protocols
- Lesson 17: Network Programmability

Chapter 105: Module 7: Final Preparation

- Lesson 18: How to Register for the Exam
- Lesson 19: Study Strategies
- Lesson 20: What to do on Exam Day

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uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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