

# CCENT Study Guide

Chapter 10  
Layer 2 Switching

# Ccent Study Guide

**Matt Walker, Angela Walker**

## Ccent Study Guide:

**CCENT ICND1 Study Guide** Todd Lammle, 2016-07-06 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you're working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you're thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 Complete CCENT preparation with hands on practice and robust study aids The CCENT Study Guide 3rd Edition offers complete conceptual and practical study tools for the Cisco Certified Entry Networking Technician exam Written by networking expert Todd Lammle this study guide provides everything you need to pass the CCENT with flying colors 100% coverage of the all exam objectives includes detailed discussion on IP data networks IPv4 and IPv6 addressing switching and routing network security and much more Todd draws on 30 years of experience to give you practical examples and real world insights that go way beyond exam prep and plenty of hands on labs help you gain experience with important tasks The Sybex interactive online learning tools include a pre assessment test to show you how much you already know two bonus ICND 1 practice exams to test your understanding and hundreds of sample questions and over 100 flashcards provide quick review The CCENT is the entry level certification for those looking to break into the networking field As a part of the CCNA certification process the exam is comprehensive and a comprehensive study guide is essential This study guide helps you develop the skills and knowledge you need to be confident on exam day Review all CCENT exam objectives Access online study tools and practice ICND1 exams Get hands on experience with dozens of labs Master switching and routing troubleshooting security and more Don't bother parsing technical references or trying to figure it out yourself This book allows you to learn and review with networking's leading authority with clear explanations practical instruction and real world insight When you're ready for the next step in your career the CCENT Study Guide 3rd Edition gets you on track to succeed on the CCENT exam

**CCENT Study Guide** Todd Lammle, 2013-07-23 The latest offering from Cisco Expert Todd Lammle for the New CCENT Certification Written by industry expert and Cisco networking guru Todd Lammle CCENT Study Guide improves on the popular Sybex Study Guide approach by providing 100 percent coverage of the ICND1 100-101 exam objectives The book contains detailed information and examples on crucial Cisco networking topics and provides practical examples and insights drawn from Todd's almost 30 years of real world experience You'll also have access to dozens of hands on labs to get the necessary experience needed to pass the exam Covers operating IP data networks Deciphers understanding switching and routing technologies Discusses troubleshooting and network security Explains working with IPv4 and IPv6 addressing In addition access is provided to a robust set of learning tools including the Sybex test engine with

hundreds of sample questions a pre assessment test ICND1 practice exams and electronic flashcards BONUS Also includes a network simulator for readers to perform all of the hands on labs included in the book and author videos **CCENT: Cisco Certified Entry Networking Technician Study Guide** Todd Lammle,2011-01-11 Start your preparation for Cisco s new CCENT entry level networking certification your entry point into Cisco s popular CCNA certification track This comprehensive study guide from leading Cisco authority Todd Lammle thoroughly prepares you for the Interconnecting Cisco Networking Devices Part 1 exam 640 822 and the start of a career with pages of exam essentials real world scenarios and hands on exercises Topics include the operation of data networks how to implement both switched and routed networks and much more For Instructors Teaching supplements are available for this title *CCENT Practice and Study Guide* Allan Johnson,2013 CCENT Practice and Study Guide is designed with dozens of exercises to help you learn the concepts and configurations crucial to your success with the Interconnecting Cisco Networking Devices Part 1 ICND1 100 101 exam The author has mapped the chapters of this book to the first two Cisco Networking Academy courses in the CCNA Routing and Switching curricula Introduction to Networks and Routing and Switching Essentials These courses cover the objectives of the Cisco Certified Networking Entry Technician CCENT certification Getting your CCENT certification means that you have the knowledge and skills required to successfully install operate and troubleshoot a small branch office network As a Cisco Networking Academy student or someone taking CCENT related classes from professional training organizations or college and university level networking courses you will gain a detailed understanding of routing by successfully completing all the exercises in this book Each chapter is designed with a variety of exercises activities and scenarios to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research and analyze topics

**CCENT Cisco Certified Entry Networking Technician Study Guide (Exam 640-822)** Matt Walker,Angela Walker,2008-06-18 The Boson Network Simulator has a retail price of more than 179 Cisco s certification program has been consistently listed in the Top 10 Most Valuable IT Certifications by ComputerWorld and Certification Magazine **CCENT**

**Cisco Certified Entry Networking Technician ICND1 Study Guide (Exam 100-101) with Boson NetSim Limited Edition** Bob Larson,Matt Walker,2014-09-12 After purchasing this product Amazon will e mail you an Access Code and redemption instructions for the online content Please consult the e mail for additional details on redeeming your code and accessing the online content The best fully integrated study system available for ICND1 Exam 100 101 With hundreds of practice questions and hands on exercises CCENT Cisco Certified Entry Networking Technician ICND1 Study Guide with Boson NetSim Limited Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official exam objectives Exam Readiness checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real

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**CCENT/CCNA ICND1 100-101 Official Cert Guide** Wendell Odom, 2013 Cisco Press is the official publisher for the New CCENT Certification The New Edition of this Best Selling Official Cert Guide includes Updated Content New Exercises 400 Practice Questions and 90 Minutes of Video Training PLUS the CCENT Network Simulator Lite Edition with lab exercises The CCENT Certification is now the only prerequisite for the CCNA Routing and Switching CCNA Voice CCNA Wireless CCNA Security and CCDA Certifications Cisco CCENT CCNA ICND1 100 101 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time Best selling author and expert instructor Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Chapter ending and part ending exercises which help you drill on key concepts you must know thoroughly Troubleshooting sections which help you master the complex scenarios you will face on the exam The powerful Pearson IT Certification Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports A free copy of the CCENT CCNA ICND1 100 101 Network Simulator Lite software complete with meaningful lab exercises that help you hone your hands on skills with the command line interface for routers and switches More than 90 minutes of video mentoring from the author A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time This official study guide helps you master all the topics on the CCENT CCNA ICND1 exam including Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals Wendell Odom CCIE No 1624 is the most respected author of Cisco networking books in the world His past titles include books on the entry level Cisco certifications CCENT and CCNA the more advanced CCNP and the industry renowned CCIE

His books are known for their technical depth and accuracy. Wendell has worked as a network engineer, consultant, instructor, course developer, and book author, and he has produced videos, software, and blogs related to Cisco certifications. His website, with links to various study tools and resources, is at [www.certskills.com](http://www.certskills.com). Well-regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, this official study guide helps you master the concepts and techniques that ensure your exam success.

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CCENT ICND1 Network Simulator Lite minimum system requirements: Microsoft Windows XP SP3, Windows Vista 32 bit/64 bit with SP1, Windows 7 32 bit/64 bit or Windows 8 32 bit/64 bit x86 processors, Mac OS X 10.6/10.7 or 10.8, Intel Pentium III 1GHz or faster processor, 512 MB RAM, 1GB recommended, 1 GB hard disk space, 32 bit color depth at 1024x768 resolution, Adobe Acrobat Reader version 8 and above. Other applications installed during installation: Adobe AIR 3.6.0, Captive JRE 6. This volume is part of the Official Cert Guide series from Cisco Press. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

The 1 hour 14 minute presentation found at the following link was given by Wendell Odom to cover Teaching the New CCENT ICND1 100-101 CCNA ICND2 200-101 Exam Material: <http://bit.ly/OdomCCENTCCNA>

*CCENT/CCNA ICND1 100-105 Official Cert Guide*

Wendell Odom, 2016-05-17

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**CCENT/CCNA ICND1 100-101 Official Cert Guide** Wendell Odom, 2013-03-27

Cisco Press is the official publisher for the New CCENT Certification The New Edition of this Best Selling Official Cert Guide includes Updated Content New Exercises 400 Practice Questions and 90 Minutes of Video Training PLUS the CCENT Network Simulator Lite Edition with lab exercises The CCENT Certification is now the only prerequisite for the CCNA Routing and Switching CCNA Voice CCNA Wireless CCNA Security and CCDA Certifications Cisco CCENT CCNA ICND1 100 101 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time Best selling author and expert instructor Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Chapter ending and part ending exercises which help you drill on key concepts you must know thoroughly Troubleshooting sections which help you master the complex scenarios you will face on the exam The powerful Pearson IT Certification Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports A free copy of the CCENT CCNA ICND1 100 101 Network Simulator Lite software complete with meaningful lab exercises that help you hone your hands on skills with the command line interface for routers and switches More than 90 minutes of video mentoring from the author A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time This official study guide helps you master all the topics on the CCENT CCNA ICND1

exam including Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals Wendell Odom CCIE No 1624 is the most respected author of Cisco networking books in the world His past titles include books on the entry level Cisco certifications CCENT and CCNA the more advanced CCNP and the industry renowned CCIE His books are known for their technical depth and accuracy Wendell has worked as a network engineer consultant instructor course developer and book author and he has produced videos software and blogs related to Cisco certifications His website with links to various study tools and resources is at [www.certhelp.com](http://www.certhelp.com) Well regarded for its level of detail study plans assessment features challenging review questions and exercises video instruction and hands on labs this official study guide helps you master the concepts and techniques that ensure your exam success Companion DVD The DVD contains more than 400 unique practice exam questions ICND1 Network Simulator Lite software and 90 minutes of video training Includes Exclusive Offer for 70% Off Premium Edition eBook and Practice Test Pearson IT Certification Practice Test minimum system requirements Windows XP SP3 Windows Vista SP2 Windows 7 or Windows 8 Microsoft .NET Framework 4.0 Client Pentium class 1GHz processor or equivalent 512 MB RAM 650 MB disc space plus 50 MB for each downloaded practice exam CCENT ICND1 Network Simulator Lite minimum system requirements Microsoft Windows XP SP3 Windows Vista 32 bit 64 bit with SP1 Windows 7 32 bit 64 bit or Windows 8 32 bit 64 bit x86 processors Mac OS X 10.6 10.7 or 10.8 Intel Pentium III 1GHz or faster processor 512 MB RAM 1GB recommended 1 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above Other applications installed during installation Adobe AIR 3.6.0 Captive JRE 6 This volume is part of the Official Cert Guide series from Cisco Press Books in this series provide officially developed exam preparation materials that offer assessment review and practice to help Cisco Career Certification candidates identify weaknesses concentrate their study efforts and enhance their confidence as exam day nears The 1 hour 14 minute presentation found at the following link was given by Wendell Odom to cover Teaching the New CCENT ICND1 100 101 CCNA ICND2 200 101 Exam Material <http://bit.ly/OdomCCENTCCNA>

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**Days Before Your CCENT Certification Exam** Allan Johnson, 2013-10-10 This updated edition breaks down key exam topics into 31 daily review sessions using short summaries lists tables examples and graphics A Study Resources section provides users with a quick reference for locating more in depth treatment of a day's topics within the relevant Foundational and Supplemental resources [CCENT/CCNA ICND1 100-105 Official Cert Guide, Academic Edition](#) Wendell

Odom, 2016-05-17 800x600 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam CCENT CCNA ICND1 100 105 Official Cert Guide Academic Edition is a comprehensive textbook and study package that provides you with an introduction to foundational networking concepts and

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Status III 10 Interface Status IV 11 Setting Switch Passwords 12 Switch CLI Configuration Process I 13 Switch CLI Configuration Process II 14 Switch CLI Exec Mode 15 Switch Forwarding I 16 Switch IP Address 17 Switch IP Connectivity I 18 Switch Security I 19 Switch Security II 20 Switch Security III 21 Switch Security IV 22 Switch Security Configuration Scenario 23 Switch Interfaces and Forwarding Configuration Scenario 24 Port Security Troubleshooting Scenario If you are interested in exploring more hands on labs and practicing configuration and troubleshooting with more router and switch commands see the special 50% discount offer in the coupon code included in the sleeve in the back of this book Windows system requirements minimum Windows 10 32 64 bit Windows 8 1 32 64 bit or Windows 7 32 64 bit 1 gigahertz GHz or faster 32 bit x86 or 64 bit x64 processor 1 GB RAM 32 bit or 2 GB RAM 64 bit 16 GB available hard disk space 32 bit or 20 GB 64 bit DirectX 9 graphics device with WDDM 1 0 or higher driver Adobe Acrobat Reader version 8 and above Mac system requirements minimum OS X 10 11 10 10 10 9 or 10 8 Intel core Duo 1 83 GHz 512 MB RAM 1 GB recommended 1 5 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above **Routing**

**Protocols Companion Guide** Cisco Networking Academy,2014-02-03 Routing Protocols Companion Guide is the official supplemental textbook for the Routing Protocols course in the Cisco Networking Academy CCNA Routing and Switching curriculum This course describes the architecture components and operations of routers and explains the principles of routing and routing protocols You learn how to configure a router for basic and advanced functionality By the end of this course you will be able to configure and troubleshoot routers and resolve common issues with RIPv1 RIPv2 EIGRP and OSPF in both IPv4 and IPv6 networks The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book's features help you focus on important concepts to succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 150 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all the course labs and Class Activities that are included in the course and published in the separate Lab Manual [The Complete One-Week Preparation for the Cisco Ccent/Ccna Icnd1 Exam 640-822](#) Thaar AL\_Taiey,2011-05-09 The Complete One Week Preparation for the CISCO CCENT CCNA ICND1 Exam 640 822 provides in

depth coverage of all official CCNA CCENT exam objectives and uses 2800 router 1841 router catalyst 2960 switch and many other CISCO devices to clarify the required concepts The book uses many highly professional figures exhibits tables configurations and real internetworking scenarios to clarify the required concepts It also provides up to date information on the newest catalyst 2960 S switch and 802 11n wireless technology Author Thaar AL\_Taiey highlights critical information outlines necessary procedures and identifies exam essentials This preparation guide presents the concepts so that they can be grasped with understanding After study there is an opportunity to test their knowledge with the two thousand challenging test like questions that resemble the questions found on the exam Question types include multiple choice single answer multiple choice multiple answers fill in the blank testlet drag and drop and simulations The chapters are organized to offer the following information description of chapter topics main exposition of topics chapter summary commands reference and list of the suggested learning questions The Complete One Week Preparation for the CISCO CCENT CCNA ICND1 Exam 640 822 is an intensive one week study guide that provides students with all the preparation they need to excel on the CCNA CCENT exam This certification guide is designed to make even the most difficult internet working concepts easy to understand Designed and organized for absolute beginners as well as for CISCO internetworking professionals The Complete One Week Preparation for the CISCO CCENT CCNA ICND1 Exam 640 822 gives students the necessary foundation to overtake the CCNA CCENT exam with extreme confidence and post high scores The following CISCO CCNA CCENT topics are covered carefully in this book Describing the operation of computer data networks Describing the required CISCO Devices for CCENT Operating CISCO Switches and Routers Implementing small switched CISCO networks Implementing an IP addressing scheme and IP services to meet the network requirements for small and large offices Implementing a small and a large routed network Managing and verifying CISCO switches and routers Explaining and selecting the appropriate administrative tasks required for a WLAN Implementing and verifying several WAN links Identifying security threats to a network and describing general methods to mitigate those threats Describing Wireless technology

**CCNA ICND2 Study Guide** Todd Lammle,2016-09-19 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you're working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you're thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 Real world expert preparation for the ICND2 with hands on labs The CCNA ICND2 Study Guide 3rd Edition covers 100 percent of all exam 200 105 objectives Leading networking authority Todd Lammle provides detailed explanations and clear instruction on IP data networks switching and routing technologies IPv4 and IPV6 addressing troubleshooting security and more Dozens of

hands on labs help you gain experience with important tasks and expert examples and insights drawn from thirty years of networking bring real world perspective to essential CCNA skills The Sybex interactive online learning environment provides hundreds of sample questions a glossary of key terms and over 100 electronic flashcards to streamline your study time and expand your resources the pre assessment test shows you where to focus your efforts and the practice exam allows you test your level of understanding while there s still time to improve The ICND2 is the final exam for the CCNA certification With 80 percent of the Internet s routers being Cisco technology this exam is critical for a career in networking This guide explains everything you need to be confident on exam day Study 100% of the exam objectives Get essential hands on experience Access sample questions and flashcards Test your knowledge with a bonus practice exam Be fully prepared for the CCNA ICND2 with the Sybex advantage

*CCNA ICND2 Study Guide* Todd Lammle,2016-09-26 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you re working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you re thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 Real world expert preparation for the ICND2 with hands on labs The CCNA ICND2 Study Guide 3rd Edition covers 100 percent of all exam 200 105 objectives Leading networking authority Todd Lammle provides detailed explanations and clear instruction on IP data networks switching and routing technologies IPv4 and IPv6 addressing troubleshooting security and more Dozens of hands on labs help you gain experience with important tasks and expert examples and insights drawn from thirty years of networking bring real world perspective to essential CCNA skills The Sybex interactive online learning environment provides hundreds of sample questions a glossary of key terms and over 100 electronic flashcards to streamline your study time and expand your resources the pre assessment test shows you where to focus your efforts and the practice exam allows you test your level of understanding while there s still time to improve The ICND2 is the final exam for the CCNA certification With 80 percent of the Internet s routers being Cisco technology this exam is critical for a career in networking This guide explains everything you need to be confident on exam day Study 100% of the exam objectives Get essential hands on experience Access sample questions and flashcards Test your knowledge with a bonus practice exam Be fully prepared for the CCNA ICND2 with the Sybex advantage

[CCNA Routing and Switching Study Guide](#) Todd Lammle,2013-10-07 Prepare for the new CCNA exams with this Todd Lammle study guide Cisco author speaker and trainer Todd Lammle is considered the authority on all things networking and his books have sold almost a million copies worldwide This all purpose CCNA study guide methodically covers all the objectives of the ICND1 100 101 and ICND2 200 101 exams as well as providing additional insight for those taking CCNA Composite 200 120 exam It thoroughly

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*CCENT Cisco Certified Entry Networking Technician, ICND1, Study Guide, with Boson NetSim Limited Edition* Robert Eugene Larson, Matthew Walker, 2014 The best fully integrated study system available for ICND1 Exam 100 101 With hundreds of practice questions and hands on exercises CCENT Cisco Certified Entry Networking Technician ICND1 Study Guide with Boson NetSim Limited Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official exam objectives Exam Readiness checklist you're ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Network Fundamentals and Terminology Networking Models OSI and TCP IP IPv4 Addressing and Subnet Masks Preparing to Configure Cisco Devices Configuring Cisco Switches VLANs and Port Security Routing Essentials and Routing Protocols Cisco Router Configuration Open Shortest Path First OSPF

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