

# Ccnp Routing And Switching Foundation Learning Guide

CCNP Routing and Switching Official Certification Library  
 Cisco CCNA Routing and Switching ICND 200-101  
 CCNP Routing and Switching Foundation Learning Guide Library  
 Ccnp Self-Study: Building Cisco Multilayer Switched Networks (Bcmsn), 4/E  
 CCIE Routing and Switching v5.1 Foundations  
 MPLS Fundamentals  
 Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPS)  
 CCNP Routing and Switching ROUTE 300-101 Official Cert Guide  
 CCNA Routing and Switching ICND2 200-101 Official Cert Guide  
 CCNP Security VPN 642-648 Official Cert Guide  
 Cisco CCNA Routing and Switching 200-120 Foundation Learning Guide Library  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide  
 Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide  
 CCIE Routing and Switching V5.0 Official Cert Guide, Volume 1, Fifth Edition  
 CCIE Enterprise Infrastructure Foundation  
 Ccnp Routing and Switching Foundation Learning Library  
 CCNP ROUTE 642-902 Official Certification Guide  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)  
 CCNP SWITCH Lab Manual  
 Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide  
 CCNA Routing and Switching 200-120 Official Cert Guide Library  
 Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide  
 CCIE Routing and Switching V5.0 Official Cert Guide  
 CCNA 200-301 Official Cert Guide, Volume 2  
 CCNA 200-301 Official Cert Guide, Volume 1  
 CCNP Routing and Switching SWITCH 300-115 Official Cert Guide  
 CCNP Routing and Switching Foundation Learning Library  
 Cisco CCNP Route Simplified  
 CCNA Routing and Switching ICND2 200-105 Official Cert Guide  
 Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide  
 Designing Cisco Network Service Architectures (ARCH)  
 CCIE Routing and Switching v5.1 Foundations  
 CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide  
 Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) Foundation Learning Guide  
 Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide  
 Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide  
 CCNP Enterprise Advanced Routing ENARSI 300-410 Official Cert Guide  
 Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide

*Ccnp Routing And  
 Switching Foundation  
 Learning Guide*

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## **JOHNSON YAMILET**

CCNP Routing and Switching Official Certification Library Cisco Press  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide  
 Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide is your Cisco authorized learning tool for CCNP TSHOOT 300-135 exam preparation. Part of the Cisco Press Foundation Learning Guide series, it teaches you how to maintain and monitor even the most complex enterprise networks. You'll compare and master today's leading approaches to troubleshooting, including an efficient structured process for maximizing network

uptime in the context of your own organization's policies and procedures. Coverage includes gathering information, capturing traffic, using event notifications, working with maintenance and troubleshooting tools, and more. Throughout, each chapter opens with a list of topics that clearly identify its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. To deepen your hands-on expertise and strengthen your exam readiness, this guide also presents five full chapters of real-world troubleshooting case studies. This guide is ideal for all certification candidates who want to master all the topics covered on the TSHOOT 300-135 exam. --The official textbook for the Cisco Networking Academy CCNP TSHOOT 300-135 course --Thoroughly introduces

proven troubleshooting principles and common troubleshooting approaches -- Defines structured troubleshooting and reviews its subprocesses --Shows how to integrate troubleshooting into day-to-day network maintenance processes --Covers information gathering on Layer 2 switching and Layer 3 routing with IOS show and debug commands, ping, and telnet -- Introduces specialized tools for capturing traffic, gathering information (SNMP and NetFlow), and receiving network event notifications (EEM) --Uses extensive troubleshooting examples and diagrams to support explanations and strengthen your understanding --Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying  
**Cisco CCNA Routing and Switching ICND 200-101** Pearson Education  
 CCNP Routing and Switching Foundation

Learning Library: ROUTE; 300-101, SWITCH 300-115, TSHOOT 300-135; contains three books that provide early and comprehensive foundation learning for the three new required exams for CCNP certification: Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide: (CCNP ROUTE 300-101) Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide: (CCNP SWITCH 300-115) Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide: (CCNP TSHOOT 300-135) This package is a comprehensive self-study tool for learning the material covered in the three new CCNP exams. The books are intermediate-level texts that assume that readers have been exposed to beginner-level networking concepts contained in the CCNA (ICND1 and ICND2) certification curriculum. No previous exposure to the CCNP level subject matter is required, so the books provide a great deal of detail on the topics covered. Within the Authorized Self-Study Guide series, each chapter opens with a list of objectives to help focus the reader's study. Real-world case studies sprinkled throughout help illuminate theoretical concepts. Key terms will be highlighted and defined as they are first used. Each chapter will conclude with a summary to help review key concepts, as well as review questions to reinforce the reader's understanding of what was covered.

CCNP Routing and Switching Foundation Learning Guide Library Cisco Press

A comprehensive introduction to all facets of MPLS theory and practice Helps networking professionals choose the suitable MPLS application and design for their network Provides MPLS theory and relates to basic IOS configuration examples The Fundamentals Series from Cisco Press launches the basis to readers for understanding the purpose, application, and management of technologies MPLS has emerged as the new networking layer for service providers throughout the world. For many service providers and enterprises MPLS is a way of delivering new applications on their IP networks, while consolidating data and voice networks. MPLS has grown to be the new default network layer for service providers and is finding its way into enterprise networks as well. This book focuses on the building blocks of MPLS (architecture, forwarding packets, LDP, MPLS and QoS, CEF, etc.). This book also reviews the different MPLS applications (MPLS VPN, MPLS Traffic Engineering, Carrying IPv6 over MPLS, AToM, VPLS, MPLS OAM etc.). You will get a

comprehensive overview of all the aspects of MPLS, including the building blocks, its applications, troubleshooting and a perspective on the future of MPLS.

*Ccnp Self-Study: Building Cisco Multilayer Switched Networks (Bcmsn), 4/E* Pearson Education

CCIE-level Cisco routing and switching guide for every CCNP Preparing for the CCIE Routing and Switching lab exam typically involves deep and lengthy study. But if you already possess the Cisco CCNP Routing and Switching certification, you already know much of what you'll need to succeed on CCIE's labs. This book will help you quickly bridge your remaining knowledge gaps and make the most of everything you already know. CCIE Routing and Switching v5.1 Foundations addresses every segment of the CCIE R&S Version 5 blueprint, helping you focus your study where it will do the most good: intense hands-on practice to deepen your current knowledge and thorough explanations of theoretical topics you haven't yet encountered. Based on the author's industry-recognized CCIE prep classes, it includes 40+ detailed labs for real gear and platform emulators; structured illustrations of protocol and feature operation; and topic-specific labs to drive the theory home. It includes a full lab walkthrough of a complex configuration reflective of the actual CCIE—ensuring that you thoroughly understand the technologies and interactions you're reading about. Discover the physical topology for any network deployment Master Spanning Tree Protocol (STP) foundations and advanced features Deploy and optimize PPP and use its full set of capabilities Implement Dynamic Multipoint VPNs (DMVPNs) from start to finish Use IP Prefix lists in prefix filtration, packet filtering, and other applications Handle any RIPv2 deployment scenario n Implement EIGRP, including classical and named operation modes and interoperation Use advanced OSPF techniques, including route filtration, LSA operation, stub configurations, and update filtering Understand what happens when you perform redistribution, and manage problematic scenarios Manage complex BGP capabilities, including Adjacency State Machine Operate IPv6 in complex network environments, including DMVPN Focus on QoS mechanisms that CCIE still covers, including traffic marking, classification, policing, and shaping Deploy IPsec VPN solutions including GRE/IPsec tunnel mode, multi-site VPN technologies, and their encryption Implement multicasting in environments requiring end-to-end IPv4 and IPv6 transport

Address operational and deployment issues involving MPLS VPNv4 tunnels  
*CCIE Routing and Switching v5.1 Foundations* Cisco Press

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. Master Cisco CCNP SWITCH 300-115 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching SWITCH 300-115 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert engineer David Hucaby 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, official 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 exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports More than 60 minutes of personal video mentoring from the author on important exam topics 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 Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please

visit [www.cisco.com](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S SWITCH 300-115 exam, including: Enterprise campus design Switch operation Switch port configuration VLANs, Trunks, and VLAN Trunking Protocol (VTP) Spanning Tree Protocol (STP), RSTP, and MSTP Protecting the STP topology Aggregating switch links Multilayer switching Configuring DHCP Logging switch activity and managing switches with SNMP Monitoring performance and traffic High availability Securing switched networks [MPLS Fundamentals](#) Cisco Press 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. Master Cisco CCNP TSHOOT 300-135 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructor Raymond Lacoste 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, official 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 exercises, which help you drill on key concepts you must know thoroughly A trouble ticket chapter that explores 10 additional network failures and the approaches you can take to resolve the issues presented 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 Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide is part of a

recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S TSHOOT 300-135 exam, including how to troubleshoot: Device performance VLANs, Trunks, and VTP STP and Layer 2 Etherchannel Inter-VLAN routing and Layer 3 Etherchannel Switch security HSRP, VRRP, GLBP IPv4 and IPv6 addressing IPv4/IPv6 routing and GRE tunnels RIPv2, RIPng, EIGRP, and OSPF Route maps, policy-based routing, and route redistribution BGP Management protocols, tools, and access **Implementing Cisco Collaboration Applications (CAPPs) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPs)** Cisco Press Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP preparation. As part of the Cisco Press foundation learning series, this book covers how to maintain and monitor complex enterprise networks. The chapters focus on planning tasks, evaluations of designs, performance measurements, configuring and verifying, and correct troubleshooting procedures and documentation tasks. From this book you will learn the foundational topics for critical analysis, planning, verification and documentation, while configuring tasks would have been mastered in the CCNP ROUTE and CCNP SWITCH material. The author walks you through several real-world troubleshooting examples to help you refine your study in the art of troubleshooting. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book, real-world troubleshooting examples serve to illuminate theoretical concepts. Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the CCNP TSHOOT 642-832 exam. Serves as the official book for the Cisco Networking Academy CCNP TSHOOT course Provides a thorough presentation on maintenance and troubleshooting techniques for routers and

switches in a complex enterprise network Covers troubleshooting wireless, unified communications, and video issues in converged networks Explains how to maintain and troubleshoot network security implementations Uses extensive troubleshooting examples and diagrams to solidify the topic explanations Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations. [CCNP Routing and Switching ROUTE 300-101 Official Cert Guide](#) Pearson Education Apply Cisco networking theory to modern enterprise environments with 40+ hands-on, CCIE-level labs Enterprise networking has changed, and so have the Cisco certification paths. It's crucial for networking professionals to bridge the gap between their current knowledge and the deep hands-on expertise they need to succeed at the pinnacle of the profession. Now, renowned Cisco instructor and practitioner Narbik Kocharians helps you make the leap with confidence, whether you're preparing for your CCIE Labs or simply seeking to optimize your own network's reliability, agility, and performance. Based on Kocharians's widely admired CCIE prep classes, this progressive learning tool combines foundational topics with 40+ lab walkthroughs, revealing how mature technologies and today's increasingly critical software-defined and policy-based solutions fit together. You'll find detailed labs for widely-available emulators, structured illustrations of modern protocol and feature operation, a full lab walkthrough of a complex configuration reflective of the actual CCIE, and more. Every lab scenario includes full solutions and in-depth explanations: read these as you practice, or solve on your own, and compare your results with the author's. Either way, you'll gain indispensable insight for applying theory to practice in real-world environments---including your CCIE Labs. Master core Layer 2 switching concepts, including STP, RSTP, MSTP, VTP, VTP Pruning, 802.1Q, ISL Trunking, LACP, and PagP Master route filtering with IP Prefix-lists Gain a rock-solid understanding of RIPv2, the Cisco Enhanced Interior Gateway Routing Protocol (EIGRP), and classic Open Shortest Path First (OSPF) routing Understand Border Gateway

Protocol (BGP), the protocol that routes the Internet Review the Cisco Dynamic Multipoint VPN (DMVPN) from the ground up, overlays/underlays, configurations, switching enhancements, network design, tunneling, and more Master MPLS and the suite of services it can provide: L3VPNs and beyond Make the most of IPv6: master address types, assignment, configuration, NDP, SLAAC, and IPv6-enabled DMVPN, OSPFv3, EIGRP, and BGP Explore the Cisco latest SD-WAN platform, from basic components to WAN edge devices and app-aware Policies Understand the Cisco SD-Access (SDA) solution for creating scalable, automated, and resilient enterprise fabrics

*CCNA Routing and Switching ICND2 200-101 Official Cert Guide* Cisco Press  
 CCNP Routing and Switching Foundation Learning Guide Library is a comprehensive foundation learning package for the three CCNP Routing and Switching exams: ROUTE, SWITCH, and TSHOOT. The three books contained in this package, *Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide*, *Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide*, and *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* build your knowledge of CCNP Routing and Switching topics. These authorized CCNP Foundation Learning Guides are written by experts, bringing years of teaching and consulting experience together in an ideal self-study format. *Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide* teaches you how to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. *Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide* ensures that you have the skills to plan, configure, and verify the implementation of complex enterprise switching solutions. *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* helps you master planning tasks, performance measurements, configuring and verifying, and correct troubleshooting procedures and documentation tasks. Each of these official learning guides provides a list of topics covered to clearly identify the focus of each chapter, a summary of key concepts for quick study, and review questions that provide you with an opportunity to assess and reinforce your understanding of the material. CCNP Routing and Switching Foundation Learning Guide Library is part of a recommended learning path from Cisco that includes simulation and hands-on

training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit

<http://www.cisco.com/web/learning/index.html>. These foundation learning guides help you understand the topics on the three CCNP Routing and Switching exams: ROUTE: Internet Protocol (IP) routing protocol principles Enhanced Interior Gateway Routing Protocol (EIGRP) Open Shortest Path First (OSPF) IP Version 6 (IPv6) Border Gateway Protocol (BGP) SWITCH: VLANs, trunks, VTP, and STP Inter-VLAN Routing Multilayer switching High availability and redundancy Switch security fundamentals TSHOOT: Defines structured troubleshooting and reviews its subprocesses Shows how to integrate troubleshooting into day-to-day network maintenance processes Covers information gathering on Layer 2 switching and Layer 3 routing with IOS show and debug commands, ping, and telnet Introduces specialized tools for capturing traffic, gathering information (SNMP and NetFlow), and receiving network event notifications (EEM)

*CCNP Security VPN 642-648 Official Cert Guide* Cisco Press

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. 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. Assess your knowledge with chapter-opening quizzes Review key concepts with Exam Preparation Tasks CCNP ROUTE 642-902 Official Certification Guide is a best of breed Cisco® exam study guide that focuses specifically on the objectives for the CCNP® ROUTE exam. Senior instructor and best-selling author 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. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. CCNP ROUTE 642-902 Official Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to

spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks sections help drill you on key concepts you must know thoroughly. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. CCNP ROUTE 642-902 Official Certification Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining) Wendell Odom, CCIE® No. 1624, is a 28-year veteran of the networking industry. He currently works as an independent author of Cisco certification resources and occasional instructor of Cisco authorized training for Skyline ATS. He has worked as a network engineer, consultant, systems engineer, instructor, and course developer. He is the author of several best-selling Cisco certification titles. He maintains lists of current titles, links to Wendell's blogs, and other certification resources at [www.TheCertZone.com](http://www.TheCertZone.com). This official study guide helps you master all the topics on the CCNP ROUTE exam, including: Network design, implementation, and verification plans EIGRP OSPF IGP Redistribution Policy-based routing and IP service-level agreement (IP SLA) BGP IPv6 IPv4 and IPv6 coexistence Routing over branch Internet connections This volume is part of the Official Certification 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.

*Cisco CCNA Routing and Switching 200-120 Foundation Learning Guide Library* Cisco Press

Cisco certifications are considered the most prestigious in the networking community. With a combination of easy-to-understand theory, real world explanations, and comprehensive hands-on labs, this edition is a powerful study tool for the certification exams. *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)* Cisco Press  
 Cisco Press is the Official publisher for the

New CCENT & CCNA Routing and Switching Certifications. The New Edition of the Best-Selling two-book value priced CCNA Official Cert Guide Library includes Updated Content, New Exercises, and 150 Minutes of Video Training -- PLUS the CCENT and CCNA Network Simulator Lite Editions with 26 Free Network Simulator Labs. CCNA 200-120 Official Cert Guide Library is a comprehensive review and package for the latest CCNA exams. The two books contained in this package, CCENT/CCNA ICND1 100-101 Official Cert Guide and CCNA ICND2 200-101 Official Cert Guide, present complete reviews and a more challenging and realistic preparation experience. The books have been fully updated to refresh the content for the latest CCNA exam topics and enhance certain key topics that are critical for exam success. This is the eBook version of the print title - 2 book library . Note that the eBooks do not provide access to the practice test software that accompanies the print books. Access to the personal video mentoring and simulator lite software is available through product registration at Cisco Press; or see instructions in back pages of your eBooks. 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 exams 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 A free copy of the CCNA ICND1 and ICND2 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 150 minutes of personal video mentoring from the author Final preparation chapters, which guide 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 These official study guides help you master all the topics on the CCNA exams, including: Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals, implementation, and troubleshooting LAN switching IPv4

routing VPNs OSPF and EIGRP configuration and troubleshooting Wide area networks and Frame Relay Network management Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, these official study guides help you master the concepts and techniques that ensure your exam success. 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. Includes 26 free CCNA Network Simulator labs: ICND1 1. Configuring IP Addresses I 2. Configuring IP Addresses II 3. Connected Routes 4. Static Routes I 5. Static Routes II 6. Subnet Zero 7. Loopback Interfaces 8. Subnet ID Calculation 9. IPv4 Address Rejection 10. IPv4 Route Selection 11. Subnetting and Addressing Configuration Scenario 12. Static Routing Configuration Scenario 13. Network Discovery Troubleshooting Scenario ICND2 1. EIGRP Serial Configuration I 2. EIGRP Serial Configuration II 3. EIGRP Serial Configuration III 4. EIGRP Frame Relay Configuration I 5. EIGRP Frame Relay Configuration II 6. EIGRP Route Tuning I 7. EIGRP Route Tuning II 8. EIGRP Neighbors II 9. EIGRP Neighbors III 10. EIGRP Configuration Scenario I 11. EIGRP Configuration Scenario II 12. EIGRP Metric Manipulation Configuration Scenario 13. Path Troubleshooting Scenario CCENT and CCNA Network Simulator Lite minimum system requirements: Microsoft Windows XP (SP2/SP3), Windows Vista (32-bit/64-bit) with SP1, Windows 7 (32-bit/64-bit) or Windows 8 (32-bit/64-bit), Mac OS X 10.6, 10.7, or 10.8 Intel® Pentium® III 1GHz or faster processor (Windows) or Intel Core™ Duo 1.83GHz or faster processor (Mac) 512 MB RAM (1 GB recommended) 1.5 GB hard disk space 32-bit color depth at 1024 x 768 resolution Adobe Acrobat Reader version 8.0 or higher Other applications installed during installation: Adobe AIR 3.6.0 Captive JRE 6 *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* Cisco Press *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* is a Cisco® authorized learning tool for CCNP preparation. As part of the Cisco

Press foundation learning series, this book covers how to maintain and monitor complex enterprise networks. The chapters focus on planning tasks, evaluations of designs, performance measurements, configuring and verifying, and correct troubleshooting procedures and documentation tasks. From this book you will learn the foundational topics for critical analysis, planning, verification and documentation, while configuring tasks would have been mastered in the CCNP ROUTE and CCNP SWITCH material. The author walks you through several real-world troubleshooting examples to help you refine your study in the art of troubleshooting. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book, real-world troubleshooting examples serve to illuminate theoretical concepts.

*Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* is ideal for certification candidates who are seeking a tool to learn all the topics covered in the CCNP TSHOOT 642-832 exam. Serves as the official book for the Cisco Networking Academy CCNP TSHOOT course Provides a thorough presentation on maintenance and troubleshooting techniques for routers and switches in a complex enterprise network Covers troubleshooting wireless, unified communications, and video issues in converged networks Explains how to maintain and troubleshoot network security implementations Uses extensive troubleshooting examples and diagrams to solidify the topic explanations Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

### **Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide** Cisco Press

Master CCNP exam topics with the official study guides Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions on the CD-ROMs CCNP Routing and Switching Official Certification Library is a comprehensive review and

practice package for the three CCNP Routing and Switching exams: ROUTE, SWITCH, and TSHOOT. The three books contained in this package, CCNP ROUTE 642-902 Official Certification Guide, CCNP SWITCH 642-813 Official Certification Guide, and CCNP TSHOOT 642-832 Official Certification Guide, present complete reviews and ample opportunity to test your knowledge of CCNP Routing and Switching exam topics. These authorized CCNP Routing and Switching study guides are written by CCIE-certified experts, bringing years of teaching and consulting experience together in an ideal test preparation format. CCNP ROUTE 642-902 Official Certification Guide teaches you how to use advanced IP addressing and routing to implement enterprise-level router networks connected to LANs and WANs. CCNP SWITCH 642-813 Official Certification Guide ensures that you have the skills necessary to implement scalable, multilayer switched networks. CCNP TSHOOT 642-832 Official Certification Guide helps you master the troubleshooting methodologies, tools, and tasks needed to effectively monitor and maintain large enterprise networks. Each of these official study guides provides you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks sections help you drill on key concepts you must know thoroughly. The companion CD-ROMs contains a powerful testing engine that enables you to focus on individual topic areas or take complete, timed exams. The assessment engine also tracks your performance and provides feedback on a module-by-module basis, laying out a complete study plan for review. Well regarded for their level of detail, assessment features, and challenging review questions and exercises, these official study guides help you master the concepts and techniques that will enable you to succeed on the exams the first time. CCNP Routing and Switching Certification Library is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). These official certification guides help you

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*CCIE Routing and Switching V5.0 Official Cert Guide, Volume 1, Fifth Edition*  
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Cisco Press is the Official publisher for New CCNA Routing and Switching Certification. The New Edition of this Best-Selling Official Cert Guide includes Updated Content, and 60 Minutes of Video Training -- PLUS the CCNA Network Simulator Lite Edition with lab exercises. Cisco CCNA Routing and Switching ICND2 200-101 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 is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the personal video mentoring and simulator lite software is available through product registration at Cisco Press; or see instructions in back pages of your eBook. This complete study package includes A

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**CCIE Enterprise Infrastructure Foundation** Cisco Press

Now fully updated for the new Cisco CAPPs 300-085 exam, *Implementing Cisco Collaboration Applications (CAPPs) Foundation Learning Guide* is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches advanced skills for designing, deploying, configuring, and troubleshooting Cisco Collaboration and Unified Communications applications, devices, and networks. Author Chris Olsen shows how to effectively use Cisco Unity Connection, Cisco Unity Express, Cisco Instant Message and Presence, Cisco TelePresence Video Communication Server, and Cisco TelePresence Management Suite in production environments. He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and integration. Next, he presents in-depth coverage of a wide range of essential tasks—from user configuration to voicemail redundancy, configuring Cisco Jabber Mobile, to provisioning Cisco Prime Collaboration. Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting. Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications, you will find this book to be an invaluable resource. Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users, templates, service classes, distribution lists, security, LDAP, dial plans, and call management Walks through Unified Messaging single Inbox configuration Shows how to design, integrate, and configure feature-rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components, design, integration, deployment, and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco

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**CCNP ROUTE 642-902 Official Certification Guide** Cisco Systems

These foundation learning guides help you understand the topics on the three CCNP Routing and Switching exams. ROUTE: \* Internet Protocol (IP) routing protocol principles \* Enhanced Interior Gateway Routing Protocol (EIGRP) \* Open Shortest Path First (OSPF) \* Border Gateway Protocol (BGP) \* IP Version 6 (IPv6) SWITCH: \* VLANs, trunks, VTP, and STP \* Inter-VLAN Routing \* Multilayer switching \* High availability and redundancy \* Switch security fundamentals TSHOOT: \* Troubleshooting wireless, unified communications, and video issues \* Maintaining and troubleshooting network security implementations \* Cisco IOS® software for maintenance and troubleshooting \* Troubleshooting switched virtual interfaces, Inter-VLAN Routing, and LAN switch operation \* Troubleshooting OSPF, EIGRP, BGP, and route redistribution CCNP Routing and Switching Foundation Learning Library is a comprehensive foundation learning package for the three CCNP Routing and Switching exams: ROUTE, SWITCH, and TSHOOT. The three books contained in this package, *Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide*, *Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide*, and *Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide* build your knowledge of CCNP Routing and Switching topics. These authorized CCNP Foundation Learning guides are written by experts, bringing years of teaching and consulting experience together in an ideal self-study format. *Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide* teaches you how to select and implement the appropriate Cisco IOS services required to build a scalable, routed

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presence, and Cisco Unified Mobility. This book focuses primarily on CUCM version 8.x, which is the call routing and signaling component for the Cisco Unified Communications solution. This book has been fully updated with new coverage of CUCM phone services, Cisco Unified Manager Assistant, Cisco Unified Mobility, and H.323 gateways. Whether you are preparing for CCNP Voice certification or simply want to gain a better understanding of Cisco Unified Communications Manager fundamentals, you will benefit from the foundation information presented in this book. Implementing Cisco Unified Communications Manager, Part 1 (CIPT1), Second Edition, is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). n Understand Cisco Unified Communications Manager architecture and components n Evaluate CUCM deployment models n Set up and configure CUCM services n Implement and harden IP phones n Manage user accounts n Configure Catalyst® switches for power over Ethernet and voice VLAN requirements n Deploy MGCP and H.323 gateways n Configure call routing and digit manipulation n Set up calling privileges and call coverage n Deploy various media resources, features, and applications n Establish Presence-enabled speed dials and lists n Implement Cisco Unified Manager Assistant and Cisco Unified Mobile This volume is in the Foundation Learning Guide Series offered by Cisco Press®. These guides are developed together with Cisco as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams. *CCNP SWITCH Lab Manual* Cisco Press Annotation Now updated for Cisco's new ROUTE 300-101 exam, Implementing Cisco IP Routing (ROUTE) Foundation Learning

Guide is your Cisco(R) authorized learning tool for CCNP(R) or CCDP(R) preparation. Part of the Cisco Press Foundation Learning Series, it teaches you how to plan, configure, maintain, and scale a modern routed network. Focusing on Cisco routers connected in LANs and WANs at medium-to-large network sites, the authors show how to select and implement Cisco IOS services for building scalable, routed networks. They examine basic network and routing protocol principles in detail; introduce both IPv4 and IPv6; fully review EIGRP, OSPF, and BGP; explore enterprise Internet connectivity; cover routing updates and path control; and present today's router security best practices. Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration and verification output examples illustrate critical issues in network operation and troubleshooting. This guide is ideal for all certification candidates who want to master all the topics covered on the ROUTE 300-101 exam. Serves as the official book for the newest version of the Cisco Networking Academy CCNP ROUTE course Includes all the content from the newest Learning@Cisco ROUTE course and information on each of the ROUTE exam topics Compares basic routing protocol features and limitations Examines RIPv2 and RIPng Covers EIGRP operation and implementation for both IPv4 and IPv6 Explores OSPFv2 implementation, and OSPFv3 for both IPv4 and IPv6 Discusses network performance optimization via routing updates Introduces path control with Cisco Express Forwarding (CEF) switching, policy-based routing (PBR), and service level agreements (SLAs) Addresses enterprise Internet connectivity via single or redundant ISP connections Explains BGP terminology, concepts, operation, configuration, verification, and troubleshooting Covers securing the management plane of Cisco routers using authentication and other recommended practices Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying.

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