

## Cisco Self Study Building Cisco Metro Optical Networks Metro

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/CCIE ENCOR exam topics \* Assess your knowledge with chapter-opening quizzes \* Review key concepts with exam preparation tasks This is the eBook edition of the CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert 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 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 help you drill on key concepts you must know thoroughly. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP/CCIE ENCOR 350-401 exam. Networking experts Brad Edgeworth, Ramiro Garza Rios, Dave Hucaby, and Jason Gooley share 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. This complete study package includes\* A test-preparation routine proven to help you pass the exams \* Do I Know This Already? quizzes,

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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 \* Practice exercises that help you enhance your knowledge \* 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 Well regarded for its level of detail, assessment features, comprehensive design scenarios, 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. The official study guide helps you master all the topics on the CCNP/CCIE ENCOR exam, including \* Enterprise network architecture \* Virtualization \* Network assurance \* Security \* Automation Foundational, authorized learning for the brand-new CCNP Implementing Cisco IP Routing (ROUTE) exam from Cisco! \* \*The only Cisco authorized foundational self-study book for the new CCNP ROUTE exam: developed with Learning@Cisco, designers of the exam and its companion course. \*Includes review questions, chapter objectives, summaries, definitions, case studies, job aids, and command summaries. \*Thoroughly introduces routed network construction, support, and scalability. CCNP Authorized Self-Study Guide: Implementing Cisco IP Routing (ROUTE) is the only Cisco authorized, self-paced foundational learning tool designed to help network professionals prepare for the brand new CCNP ROUTE exam from Cisco. This book covers all CCNP ROUTE exam objectives for mastering routed network construction, support, and scalability, including: \* \*Assessing complex enterprise network requirements and planning routing services. \*Applying standards, models and best

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practices to complex networks. \*Creating and documenting routing implementation plans. \*Planning, configuring, verifying, and troubleshooting EIGRP solutions.

\*Implementing scalable OSPF multiarea network solutions.

\*Implementing IPv4 based redistribution. \*Assessing, controlling, configuring, and verifying path control. As part of the Cisco Press Self-Study series, this revision to the popular Authorized Self-Study Guide to advanced routing has been fully updated to provide early and comprehensive foundational learning for the new CCNP ROUTE course. This text assumes that readers have been exposed to concepts covered by CCNA (ICND1 and ICND2), but does not assume any prior knowledge of CCNP concepts.

& Master network design skills with this second edition of the best-selling CCDA self-study guide & & Learn fundamentals network design skills in the format of the Global Network Business approach designed by Cisco Systems & & Prepare for the new CCDA exam, 640-861 DESGN, while learning how to build a scalable, robust, accessible, and secure network architecture

The official study guide for the Cisco CCNP and CCDP(r) Remote Access exam Coverage of all CCNP and CCDP Remote Access exam topics enables you to identify and fill your knowledge gaps before the exam date. You'll learn to: Determine site requirements in a central office, branch office, and small/remote or home office, and select the proper Cisco network devices for remote access purposes Deploy physical connectivity of the WAN devices necessary for remote access purposes Implement, configure, and control modem connections Use the versatility of Point-to-Point Protocol (PPP)-essential to today's remote access networks Deploy ISDN BRI connections as well as basic dial-on-demand routing (DDR) and advanced DDR options Establish and control traffic through X.25 and Frame Relay connections

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Manage network performance with queuing and compression  
Scale access control in an expanding network using the AAA utility  
CCNP Remote Access Exam Certification Guide is a comprehensive study tool for the CCNP/CCDP(r) Remote Access exam. This exam evaluates your ability to build a remote access network to interconnect central sites to branch offices and home office/telecommuters, control access to the central site, and maximize bandwidth utilization over the remote links. This book covers all the major topics on the Remote Access exam, enabling you to master the concepts and technologies upon which you will be tested. Each chapter of CCNP Remote Access Exam Certification Guide focuses your study and tests your knowledge of the subjects through specially designed assessment and study features. "Do I Know This Already?" quizzes assess your knowledge and help you decide how much time you need to spend on each section within a chapter. The well-organized Foundation Topics sections detail all the exam topics you need to master. Each chapter includes a Foundation Summary section that highlights essential concepts for quick reference. Challenging chapter-ending review questions and exercises test your knowledge of the subject matter, reinforce key concepts, and provide you with the opportunity to apply what you've learned in the chapter. Finally, the companion CD-ROM's robust testing engine enables you to take practice exams that mimic the real testing environment. This customizable software lets you take a full sample exam, focus on particular topic areas, randomize answers for reusability, track your progress, and refer to electronic text to review concepts. CCNP Remote Access Exam Certification Guide is part of a recommended learning path from Cisco Systems, Inc., that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study and exam preparation guides from Cisco Press. To find out more about instructor-

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led, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners, please visit: [www.cisco.com/go/training](http://www.cisco.com/go/training). Companion CD-ROM This companion CD-ROM contains a test bank with more than 200 practice questions.

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 ROUTE 300-101 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 ROUTE 300-101 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 ROUTE 300-101 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 and best-selling author Kevin Wallace 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

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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 ROUTE 300-101 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 ROUTE 300-101 exam, including --Routing protocol characteristics and virtual routers --Remote site connectivity --IPv6 routing and RIPng --EIGRP, OSPFv2, and OSPFv3 --IGP redistribution and route selection --eBGP and iBGP --IPv6 Internet connectivity --Router security --Routing protocol authentication

The remote access exam is one of the four exams that CCNP candidates need to pass to get certified. This curriculum-driven book features FAQ sections for each chapter that will aid in troubleshooting problem areas on the job. The CD-ROM provides hands-on experience and includes Cisco router utilities and network sniffers so students can load configurations on a router. 200 illus.

A must-have study guide for exam 640-911 on Cisco's UnifiedData Center The Cisco Certified Network Associate Data Center certificationis Cisco's newest certification, covering the Cisco Unified DataCenter technologies. Written by unparalleled author and Ciscoauthority Todd Lammle, and CCIE John Swartz, this comprehensivestudy guide is essential reading for anyone preparing to take the640-911

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exam (Introducing Cisco Data Center Networking), providing in-depth coverage of all the exam's objectives. In addition, it offers expanded coverage on key topics reflected on the exam. Addresses understanding basic networking and ethernet technologies Reviews the OSI and DoD model and TCP/IP Transport Layer Covers basic IP routing technologies, layer 2 switching technologies, and routing principles Provides an introduction to Nexus switch as well as how to configure it CCNA Data Center Study Guide offers you access to additional study tools, including bonus practice exams, electronic flashcards, a searchable PDF of a glossary of terms. Plus, you will be able to use the free nexus simulator to perform all the hands-on labs in the book.

Learn from the newest edition of the best-selling BSCI book; Master routed network construction and support with the only Cisco authorized self-study book for CCNP routing foundation learning; Developed in conjunction with Cisco; Includes review questions, configuration exercises, chapter objectives and summaries, key term definitions, and command summaries

Gain CCIE lab exam experience with volume 2 of the best-selling CCIE Practical Studies. Experience putting concepts into practice with lab scenarios that guide you in applying what you know onto real networks. Learn how to build a practice lab for your CCIE lab exam preparation. Use detailed labs and configuration exercises to learn technologies needed to succeed on the exam.

This authoritative guidebook combines comprehensive coverage of Cisco SD-WAN with complete official preparation for Cisco's new CCNP Enterprise ENSDWI 300-415 certification exam. Authored by a team of Cisco

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architects responsible for training both Cisco and partner engineers on SD-WAN solutions, it covers all facets of the product: benefits, use cases, components, workings, configuration, support, and more. Throughout, practical examples demonstrate Cisco SD-WAN at work in diverse cloud and premises environments, and the authors show how to apply Cisco SD-WAN technologies and tools in their own real-world environments. As Cisco's official ENSDWI 300-415 study guide, this book covers all exam objectives and is organized to simplify and streamline preparation. It also contains an access code for two full practice exams delivered through Pearson's advanced test prep application.

There are no books available that can compete with the actual Cisco training courseware provided in this book! Prepare for CCDA certification while mastering the network design process

- Learn to characterize existing networks and determine new customer requirements
- Develop appropriate network topologies for various environments
- Design device naming schemes and IP and IPX addressing schemes
- Understand how to select the best routing and bridging protocols and provision software features and hardware for LANs and WANs
- Learn how to create design documents and build prototypes and pilots
- Optimize your network with valuable information on PIX firewalls, router performance, ISDN, and Windows NT
- Improving network security based on the Cisco System instructor-led and self-study course available worldwide, *Designing Cisco Networks* teaches you how to become proficient in network design methodologies. Created for those

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seeking to attain CCDA certification, this book focuses on small- to medium-sized networks and provides a step-by-step process to follow when designing internetworks to ensure that all important issues are considered, resulting in optimal network design. By using this book you will be able to identify customer needs, design LAN and WAN network structures, create network management strategies, write design documents, and build and test prototypes and pilots. Filled with case studies, procedures, charts, and checklists, Designing Cisco Networks will help you understand how to analyze and solve existing network problems while building a framework that supports the functionality, performance, and scalability required of any given environment. Self-assessment through exercises and chapter-ending tests starts you down the path for attaining your CCDA certification.

Learn the remote access concepts on the new CCNP BCRAN 642-821 exam with the only Cisco authorized self-study guide. This second edition is a Cisco-authorized, self-paced learning tool for CCNP preparation, presenting readers with a detailed overview of the technologies and techniques for enabling WAN solutions.

The official BCRAN courseware from Cisco Systems! Foundation learning for CIPT1 exam 642-446 Dennis Hartmann, CCIE® No. 15651 Implementing Cisco Unified Communications Manager, Part 1 (CIPT1), is a Cisco®-authorized, self-paced learning tool for CCVP® foundation learning. This book provides the knowledge necessary to install, configure, and deploy a Cisco

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Unified Communications solution based on Cisco Unified Communications Manager, the call routing and signaling component of the Cisco Unified Communications solution. By reading this book, you will gain an understanding of deploying a Cisco Unified Communications Manager to support single site, centralized, distributed, and hybrid call processing models. This book focuses on Cisco Unified Communications Manager Release 6.x. You will learn how to install and configure Cisco Unified Communications Manager, power over Ethernet switches, and gateways using MGCP. You will also learn how to build a scalable dial plan for on-net and off-net calls. The dial plan chapters of the book cover call routing, call coverage, digit manipulation, class of service, and call coverage components. This book will teach you how to implement media resources, LDAP directory integration, and various endpoints including Skinny Client Control Protocol (SCCP) and Session Initiation Protocol (SIP). Cisco Unified Video Advantage endpoint configuration is covered, in addition to, Cisco Unity® voice mail integration and basic voice mail box creation. Various user features are discussed including Presence. Whether you are preparing for CCVP 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), is part of a recommended learning path from Cisco that includes simulation and hands-on training from

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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). Dennis J.

Hartmann, CCIE® No. 15651 is a lead Unified Communications instructor at Global Knowledge. Dennis has been working with CallManager since CallManager 2.0. Dennis has various technical certifications: CCIE No. 15651, CCVP, CCSI, CCNP®, CCIP®, and MCSE.

Dennis has worked with various Fortune 500 companies including AT&T, Sprint, Merrill Lynch, KPMG, and Cabletron Systems. Understand Cisco Unified Communications Manager architecture and components

Evaluate Cisco Unified Communications Manager

deployment models Install, upgrade, and administer Cisco Unified Communications Manager

Apply network configuration, NTP, and DHCP configuration options

Configure and manage user accounts Deploy various

Cisco Unified IP Phones Configure Catalyst® switches

for power over Ethernet and voice VLAN requirements

Harden IP Phones to mitigate security risks Configure

Media Gateway Control Protocol (MGCP) gateways

Configure dial plans, call routing, and digit manipulation

Deploy various media resources and user features

Integrate Cisco Unity Voicemail with Cisco Unified

Communications Manager Configure video-enabled IP

Phones This volume is in the Certification Self-Study

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networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations. Category: Cisco Unified Communications Manager 6 Covers: CIPT1 exam 642-446 \$65.00 USA / \$72.00 CAN

All the CCNA-Level commands in one compact, portable resource.

Authorized Self-Study Guide: Building Scalable Cisco Internetworks (BSCI), Third Edition, is a Cisco-authorized, self-paced learning tool for learning how to design, configure, maintain, and scale routed networks that are growing in size and complexity. This book also provides complete coverage of the BSCI exam topics, and supplemental online appendixes include helpful aids, background material, supplementary details, and a summary of the Cisco IOS router commands used.

The new edition of bestselling CCNA Foundation Learning Guide Library is a comprehensive foundation learning package for the latest CCNA exams. The two books contained in this package, Interconnecting Cisco Network Devices, Part 1 (ICND1) and Interconnecting Cisco Network Devices, Part 2 (ICND2), provide you with the knowledge needed to install, configure, operate, and troubleshoot medium-size route and switched networks, including implementation and verification of connections to remote sites in a WAN. The books will be fully updated to cover the latest CCNA exam topics. In Interconnecting Cisco Network Devices, Part 1 (ICND1), you will study installation and

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configuration information that network administrators need to install and configure Cisco products. Specific topics include building a simple network, Ethernet LANs, wireless LANs (WLANs), LAN and WAN connections, and network management. In *Interconnecting Cisco Network Devices, Part 2 (ICND2)*, you will study actual router and switch output to aid your understanding of how to configure these devices. Many notes, tips, and cautions are also spread throughout the book. Specific topics include constructing medium-size routed and switched networks, OSPF and EIGRP implementation, access control lists (ACL), address space management, and LAN extensions into a WAN. Chapter-ending review questions illustrate and help solidify the concepts presented in the book. Whether you are preparing for CCNA certification or simply want to gain a better understanding of how to build small to medium-size Cisco networks, you will benefit from the foundation information presented in this book. CCNA 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.

Authorized Self-Study Guide Designing for Cisco Internetwork Solutions (DESGN) Second Edition  
Foundation learning for CCDA exam 640-863  
Designing for Cisco Internetwork Solutions

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(DESGN), Second Edition, is a Cisco®-authorized, self-paced learning tool for CCDA® foundation learning. This book provides you with the knowledge needed to design enterprise networks. By reading this book, you will gain a thorough understanding of designing routed and switched network infrastructures and services within a modular architecture. In Designing for Cisco Internetwork Solutions (DESGN), Second Edition, you will study a broad range of network design principles and guidelines. You will learn about network design in the context of the Cisco Service-Oriented Network Architecture (SONA) framework and the Cisco Enterprise Architecture. Specific topics include campus and data center infrastructure, remote connectivity, IP addressing design, routing protocol selection, voice network design, wireless network design, and including security in your designs. An ongoing case study plus chapter-ending review questions illustrate and help solidify the concepts presented in the book. Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles, you will benefit from the foundation information presented in this book. Designing for Cisco Internetwork Solutions (DESGN), 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.

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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). Diane Teare is a professional in the networking, training, and e-learning fields. She has more than 20 years of experience in designing, implementing, and troubleshooting network hardware and software and has also been involved in teaching, course design, and project management. She has extensive knowledge of network design and routing technologies and is an instructor with one of the largest authorized Cisco Learning Partners.

Understand the Cisco vision of intelligent networks and the SONA framework Learn how to structure and modularize network designs within the Cisco Enterprise Architecture Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Create IPv4 addressing schemes Understand IPv6 design Select the appropriate routing protocol for various modules in the Cisco Enterprise Architecture Design basic VoIP and IP telephony networks Understand wireless design principles Build security into your network designs This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed self-study solutions to help networking professionals understand technology implementations and prepare

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for the Cisco Career Certifications examinations.  
Category: Cisco Press—Network Design Covers:  
CCDA Exam 640-863

Learn how to build Internet architectures with the official CISA self-study guide

Plan, design, and configure high-speed fiber-optic networks Coverage includes: Configuring ONS 15454 and ONS 15327 platforms Architecture for building Metropolitan Ethernet Transparent LAN Services (TLS) Packet over SONET (PoS) network design, configuration, and verification Inner workings of dense wavelength division multiplexing (DWDM), including operability with the ONS 15216 product family Principles of Dynamic Packet Transport (DPT) SONET background, including structures, components, and network design Bonus case studies, which challenge you to select equipment and design a metro optical network Fiber-optic networking has several significant advantages over traditional wired and wireless networks: optical signals can travel much farther than electrical signals, are more secure, are resistant to electromagnetic interference, and have the potential to provide bandwidth in the terabits per second range (1000 Gbps). Service providers must satisfy the always-increasing networking demands of customers while keeping costs to a minimum. Optical networks must meet the challenge of supporting multiple types of transmissions including

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voice, video, and data traffic. Although time-division multiplexing (TDM) has provided a growth path for services, it is more constrained than IP + Optical strategies like the Cisco Dynamic Packet Transport (Resilient Packet Ring). The Cisco Systems® end-to-end IP + Optical networking strategy provides an intelligent converged network in which optical infrastructures can be used to their fullest potential. While most reference books focus on the theory involved in SONET and optical infrastructures, Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) focuses on the practical application of planning and configuring optical networks that involve SONET, DWDM, Metropolitan Ethernet, Packet over SONET, and Dynamic Packet Transport (Resilient Packet Ring). Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) is part of a recommended learning path from Cisco Systems that can include 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). This volume is in the Certification Self-Study Series offered by Cisco Press. Books in this series provide officially deve...

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#640-504 with the official Cisco coursebook. Webb comprehensively covers key exam topics in a tutorial format to help students prepare for certification while mastering Layer 2 switching technologies and Layer 3 routing services.

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. This book, combined with CCNA 200-301 Official Cert Guide, Volume 1, covers all the exam topics on the CCNA 200-301 exam. · Master Cisco CCNA 200-301 exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam preparation tasks This is the eBook edition of CCNA 200-301 Official Cert Guide, Volume 2. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CCNA 200-301 Official Cert Guide, Volume 2 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 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 help you drill on key concepts you must know thoroughly. CCNA 200-301 Official Cert Guide, Volume 2 from

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Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. 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. 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 Key Topic tables, which help you drill on key concepts you must know thoroughly
- The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports
- A free copy of the CCNA 200-301 Network Simulator, Volume 2 Lite software, complete with meaningful lab exercises that help you hone your hands-on skills with the command-line interface for routers and switches
- Links to a series of hands-on config labs developed by the author
- Online interactive practice exercises that help you enhance your knowledge
- More than 50 minutes of video mentoring from the author
- An online interactive Flash Cards application to help you drill on Key Terms by chapter
- A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies
- Study

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plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, hands-on labs, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNA 200-301 Official Cert Guide, Volume 2, combined with CCNA 200-301 Official Cert Guide, Volume 1, walk you through all the exam topics found in the Cisco 200-301 exam. Topics covered in Volume 2 include · IP access control lists · Security services · IP services · Network architecture · Network automation Companion Website: Companion Website: The companion website contains CCNA Network Simulator Lite software, practice exercises, 50 minutes of video training, and other study resources. See the Where Are the Companion Files on the last page of your eBook file for instructions on how to access. In addition to the wealth of content, this new edition includes a series of free hands-on exercises to help you master several real-world configuration activities. These exercises can be performed on the CCNA 200-301 Network Simulator Lite, Volume 2 software included for free on the companion website that accompanies this book.

"How to master CCNA shows you, step-by-step, everything you need to know to master the CCNA Routing & Switching exam. You will discover all the

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different protocols that are used on networks and you will learn how to build networks yourself! Plus you will receive an overview of labs that you should practice from GNS3vault.com."--Page 4 of cover. CCNP Preparation Library is a comprehensive self-study preparation package for the Cisco Certified Network Professional (CCNP) exams, the professional-level Cisco Career Certification for network support. The four books contained in this package, CCNP Self-Study: Building Scalable Cisco Internetworks (BSCI), Building Cisco Multilayer Switched Networks, Building Cisco Remote Access Networks and Cisco Internetwork Troubleshooting, are Cisco authorized self-study learning tools. They present complete foundation coverage of all the topics found on the CCNP exams. Whether you are interested in preparing for the CCNP exams or are simply interested in gaining a better understanding of intermediate-level routing, switching, remote access and support topics, you should find these self-study guides to be a useful resource.

Plan, design, and configure high-speed fiber-optic networks  
Coverage includes: Configuring ONS 15454 and ONS 15327 platforms  
Architecture for building Metropolitan Ethernet  
Transparent LAN Services (TLS) Packet over SONET (PoS) network design, configuration, and verification  
Inner workings of dense wavelength division multiplexing (DWDM), including operability with the ONS 15216 product family  
Principles of Dynamic Packet Transport (DPT) SONET background, including structures, components, and network design  
Bonus

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case studies, which challenge you to select equipment and design a metro optical network. Fiber-optic networking has several significant advantages over traditional wired and wireless networks: optical signals can travel much farther than electrical signals, are more secure, are resistant to electromagnetic interference, and have the potential to provide bandwidth in the terabits per second range (1000 Gbps). Service providers must satisfy the always-increasing networking demands of customers while keeping costs to a minimum. Optical networks must meet the challenge of supporting multiple types of transmissions including voice, video, and data traffic. Although time-division multiplexing (TDM) has provided a growth path for services, it is more constrained than IP + Optical strategies like the Cisco Dynamic Packet Transport (Resilient Packet Ring). The Cisco Systems® end-to-end IP + Optical networking strategy provides an intelligent converged network in which optical infrastructures can be used to their fullest potential. While most reference books focus on the theory involved in SONET and optical infrastructures, Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) focuses on the practical application of planning and configuring optical networks that involve SONET, DWDM, Metropolitan Ethernet, Packet over SONET, and Dynamic Packet Transport (Resilient Packet Ring). Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) is part of a recommended learning path from Cisco Systems that can include 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). This volume is in the Certification Self-Study Series offered by Cisco Press. Books in this series provide officially developed

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training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations. 158705070607312003

- Learn exam topics for all four CCNP areas of study, including those from the new BSCi exam - Use these four books as study guides, course supplements or self-paced training manuals - Follow guidance from authors that are trainers and developers of Cisco courses - Learn with the only Cisco Systems authorised self-study books

Cisco IOS XR Fundamentals is a systematic, authoritative guide to configuring routers with Cisco IOS® XR, the next-generation flagship Cisco® Internet operating system. In this book, a team of Cisco experts brings together quick, authoritative, and example-rich reference information for all the commands most frequently used to configure and troubleshoot Cisco IOS XR-based routers in both service provider and enterprise environments. The authors walk you through the details of the Cisco IOS XR architecture and explain commands in the new Cisco IOS XR CLI wherever required. They present concise explanations of service provider requirements and internetwork theory, backed by proven sample configurations for IOS XR services, MPLS, multicast, system management, system security, routing, and interfaces. Cisco IOS XR Fundamentals is an indispensable resource for designing, implementing, troubleshooting, administering, or selling networks containing Cisco IOS XR-supported routers. This is the only Cisco IOS XR book that: Clearly explains how Cisco IOS XR meets the emerging requirements of both current and future networks Gives network professionals extensive information for simplifying migration and taking full advantage of Cisco IOS XR's new power Presents detailed, tested configuration examples that network professionals can apply in their own networks Walks through using new Cisco IOS XR features and the In-Service

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ACL Analysis I 8. Named ACL I 9. Named ACL II 10. Named ACL III 11. Standard ACL Configuration Scenario 12. Extended ACL I Configuration Scenario 13. Extended ACL II Configuration Scenario CCNA Network Simulator Lite System Requirements: 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) macOS 10.14, 10.13, 10.12, or 10.11, 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 CCNA 200-301 Official Cert Guide Library Companion Website Access interactive study tools on this book's companion website, including practice test software, video training, CCNA Network Simulator Lite software, memory table and config checklist review exercises, Key Term flash card application, a study planner, and more! To access the companion website, simply follow these steps: 1. Go to [www.ciscopress.com/register](http://www.ciscopress.com/register). 2. Enter the print book ISBN: (Volume 1: 9780135792735, Volume 2: 9781587147135). 3. Answer the security question to validate your purchase. 4. Go to your account page. 5. Click on the Registered Products tab. 6. Under the book listing, click on the Access Bonus Content link. If you have any issues accessing the companion website, you can contact our support team by going to <http://pearsonitp.echelp.org>.

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