



CISCO NETWORKING ACADEMY PROGRAM



# **CCNA 4:**

## **WAN Technologies v3.1**

### **Instructor Lab Manual**

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# Instructor Manual Lab Ccna 3

**Kelly Cannon, Kurt Hudson**



## **Instructor Manual Lab Ccna 3:**

CCNA Voice Lab Manual Brent Sieling, 2013 The CCNA R Voice certification expands your CCNA level skill set to prepare for a career in voice networking This lab manual helps to prepare you for the Introducing Cisco Voice and Unified Communications Administration ICOMM v8 0 certification exam 640 461 CCNA Voice Lab Manual gives you extensive hands on practice for developing an in depth understanding of voice networking principles tools skills configurations integration challenges and troubleshooting techniques Using this manual you can practice a wide spectrum of tasks involving Cisco Unified Communications Manager Unity Connection Unified Communications Manager Express and Unified Presence CCNA Voice Lab Manual addresses all exam topics and offers additional guidance for successfully implementing IP voice solutions in small to medium sized businesses CCNA Voice 640 461 Official Exam Certification Guide Second Edition ISBN 13 978 1 58720 417 3 ISBN 10 1 58720 417 7 CCNA Voice Portable Command Guide ISBN 13 978 1 58720 442 5 ISBN 10 1 58720 442 8 Configuring Cisco Unified Communications Manager and Unity Connection A Step by Step Guide Second Edition ISBN 13 978 1 58714 226 0 ISBN 10 1 58714 226 0 CCNA Voice Quick Reference ISBN 13 978 1 58705 767 0 ISBN 10 1 58705 767 0 **Cisco Networking Academy Program CCNA 3. 0 Training Edition** Cisco Networking Academy Program, 2003-04-30 **Designing and Supporting Computer Networks, CCNA Discovery Learning Guide** Kenneth Stewart, Aubrey Adams, Allan Reid, Jim Lorenz, 2008-04-29 Designing and Supporting Computer Networks CCNA Discovery Learning Guide is the official supplemental textbook for the Designing and Supporting Computer Networks course in the Cisco Networking Academy CCNA Discovery curriculum version 4 In this course the last of four in the new curriculum you progress through a variety of case studies and role playing exercises which include gathering requirements designing basic networks establishing proof of concept and performing project management tasks In addition within the context of a pre sales support position you learn lifecycle services including upgrades competitive analyses and system integration The Learning Guide written and edited by instructors is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The Learning Guide 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 The Glossary defines each key term Summary of Activities and Labs Maximize your study time with this complete list of all associated 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 Challenge Questions and Activities Apply a deeper understanding of the concepts with these challenging end of chapter questions and activities The answer key explains each answer Hands on Labs Master the practical hands on skills of the course by performing all the tasks in the course labs included in Part II of the Learning Guide Portfolio Documents

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Canada Jim Lorenz is an instructor and curriculum developer for the Cisco Networking Academy 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 with more than 50 different exercises from the online course identified through out the book with this icon The files for these activities are on the accompanying CD ROM Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout some chapters The files for these activities are on the accompanying CD ROM Packet Tracer v4 1 software developed by Cisco is available separately Hands on Labs Work through all 26 course labs and 3 additional challenge labs included in Part II of the book The labs are an integral part of the CCNA Discovery curriculum so you can review the core text and the lab material to prepare for all your exams Companion CD ROM See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book The CD ROM includes Interactive Activities Packet Tracer Activity files IT Career Information Taking Notes Lifelong Learning OSI Model Overview This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum

**Accessing the WAN, CCNA Exploration Companion Guide** Bob Vachon, Rick Graziani, 2008-04-28 Accessing the WAN CCNA Exploration Companion Guide Bob Vachon Rick Graziani Accessing the WAN CCNA Exploration Companion Guide is the official supplemental textbook for the Accessing the WAN course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course discusses the WAN technologies and network services required by converged applications in enterprise networks The Companion Guide written and edited by Networking Academy instructors is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and 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 updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 250 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Bob Vachon is the coordinator of the Computer Systems Technology program and teaches networking infrastructure courses at Cambrian College in Sudbury Ontario Canada Bob has worked and taught in the computer networking and information technology field for 25 years and is a scholar graduate of Cambrian College Rick Graziani teaches computer science and computer networking courses at Cabrillo College in Aptos California Rick has worked and taught in the computer networking and information technology field for 30 years How To Look for this icon to study the steps that you need to learn to perform

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*Cisco CCENT/CCNA ICND1 100-101 Official Cert Guide, Academic Edition* Wendell Odom, 2013 CCENT CCNA ICND1 100 101 Official Cert Guide Academic Edition is a comprehensive textbook and study package for a beginner level networking course This book has been completely revised to align to Cisco's new CCENT 100 101 ICND1 exam Material is presented in a concise manner focusing on increasing student retention and recall of exam topics The book is printed in four color allowing students to benefit from carefully crafted figures that utilize color to convey concepts If you're looking for a lower priced option for your students consider the Standard Version The book content is the same with the same instructor resources but is printed in black and white and the books have a slightly different layout with chapter opening assessment questions instead of review questions The Standard Version does not include the premium edition eBook and practice test but does include a CD with practice test software See ISBN 9781587143854 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>

**Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide** Allan Reid, Jim Lorenz, Cheryl A. Schmidt, 2008-04-25 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Introducing Routing and Switching in the Enterprise CCNA Discovery Learning Guide is the official supplemental textbook for the Introducing Routing and Switching in the Enterprise course in the Cisco Networking Academy CCNA Discovery curriculum version 4 The course the third of four in the new curriculum familiarizes you with the equipment applications and protocols installed in enterprise networks with a focus on switched networks IP Telephony requirements and security It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol EIGRP and Open Shortest Path First OSPF Protocol Hands on exercises include configuration installation and troubleshooting The Learning Guide'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 The Glossary defines each key term Summary of Activities and Labs Maximize your

study time with this complete list of all associated 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 Challenge Questions and Activities Apply a deeper understanding of the concepts with these challenging end of chapter questions and activities The answer key explains each answer Hands on Labs Master the practical hands on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum Network Basics Companion Guide Cisco Networking Academy,2013-10-28 Network Basics Companion Guide is the official supplemental textbook for the Network Basics course in the Cisco Networking Academy CCNA Routing and Switching curriculum Using a top down OSI model approach the course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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 250 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 ofchapter 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 performcertain tasks Interactive Activities Reinforce your understanding of topics with more than 50 different 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 68 course labs and Class Activities that are included in the course and published in the separate Lab Manual *Network Basics Companion Guide* Cisco Networking Academy Program,2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy course in the new CCNA Routing and Switching curriculum An invaluable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day

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*CCNA Lab Manual for Cisco Networking Fundamentals* Kelly Cannon, Kurt Hudson, 1999-10 CD ROM includes a limited version of MeasureUp's CCNA test prep software including 50 sample exam questions and a test engine Page xiii

**LAN Switching and Wireless, CCNA Exploration Companion Guide** Wayne Lewis, 2008-04-28 LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis Ph.D LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 190 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training PCATT based at Honolulu Community College How To Look for this icon to study the steps that you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the LAN Switching and Wireless course LAN Switching and Wireless CCNA Exploration Labs and Study Guide ISBN 10 1 58713 202 8 ISBN 13 978 1 58713 202 5 Companion CD ROM See instructions within the ebook on how to get access to the files

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**Computer Forensics JumpStart** Micah Solomon,Diane Barrett,Neil Broom,2008-05-05 Launch Your Career in Computer Forensics Quickly and Effectively Written by a team of computer forensics experts Computer Forensics JumpStart provides all the core information you need to launch your career in this fast growing field Conducting a computer forensics investigation Examining the layout of a network Finding hidden data Capturing images Identifying collecting and preserving computer evidence Understanding encryption and examining encrypted files Documenting your case Evaluating common computer forensic tools Presenting computer evidence in court as an expert witness

*LAN Switching and Wireless* Wayne Lewis,2008 LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis Ph D LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA R Exploration curriculum version 4 This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course

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Networker s Journal booklet Taking Notes A txt file of the chapter objectives More IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press R Books in this series support and complement the Cisco Networking online curriculum

**Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide** Amir Ranjbar, 2010-03-26 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

[Juniper Networks Reference Guide](#) Thomas M. Thomas, 2003 Detailed examples and case studies make this the ideal hands on guide to implementing Juniper Networks systems It contains something for everyone and covers all the basics for beginners while challenging experience users with tested configuration examples throughout the book

**Complete CompTIA A+ Guide to PCs** Cheryl A. Schmidt, 2013 Cheryl Schmidt s Complete CompTIA A Guide to PCs Sixth Edition presents the fundamentals of computer desktop and laptop installation configuration maintenance and networking through simple step by step instruction based on CompTIA A R 2012 Edition objectives With a focused emphasis on security and customer service skills this comprehensive computer repair guide introduces the most important tools students need to become professional customer friendly technicians using today s

technologies A R Certification Exam objectives summarize exam topics in an easy to use reference at the beginning of the book so students can quickly locate and review key concepts covered on the exam Each section is written in building block fashion beginning with the simplest concepts continuing on to more advanced concepts and creating a solid foundation for understanding new technologies as they arrive Schmidt provides comprehensive pedagogical tools many of them unique to this book

**Innovative Techniques in Instruction Technology, E-learning, E-assessment and Education** Magued Iskander, 2008-08-20 Innovative Techniques in Instruction Technology E Learning E Assessment and Education is a collection of world class paper articles addressing the following topics

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