
Network Fundamentals Instructor Lab Manual

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Computer Networking: A Top-Down Approach Featuring the Internet, 3/e Cisco Press

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.

Introduction to Networks Companion Guide v6 is the official supplemental textbook for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum.

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-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.

Guide to TCP/IP

John Wiley & Sons

LAN Switching and Wireless CCNA Exploration Labs and Study Guide

Allan Johnson

LAN Switching and Wireless, CCNA Exploration Labs

and Study Guide is designed to help you learn about and apply your knowledge of the LAN switching and wireless topics from Version 4 of the Cisco® **Networking Academy® CCNA® Exploration** curriculum. Each chapter contains a **Study Guide** section and a **Labs and Activities** section. The **Study Guide** The dozens of exercises in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate. Each chapter is slightly different and includes matching,

multiple-choice, fill-in-the-blank, and open-ended questions designed to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research topics Packet Tracer Activities--This icon identifies exercises interspersed throughout the Study Guide section where you can practice or visualize a specific task using Packet Tracer, a powerful network simulation program developed by Cisco. Labs and Activities The Labs and

Activities sections begin with a Command Reference table and include all the online curriculum labs to ensure that you have mastered the practical skills needed to succeed in this course. Hands-On Labs--This icon identifies the hands-on labs created for each chapter. Work through all the Basic, Challenge, and Troubleshooting labs as provided to gain a deep understanding of CCNA knowledge and skills to ultimately succeed on the CCNA Certification Exam. Packet Tracer

Companion--This icon identifies the companion activities that correspond to each hands-on lab. You use Packet Tracer to complete a simulation of the hands-on lab. Packet Tracer Skills Integration Challenge--Each chapter concludes with a culminating activity called the Packet Tracer Skills Integration Challenge. These challenging activities require you to pull together several skills learned from the chapter--as well as previous chapters and courses--to successfully complete one comprehensive

exercise. Allan Johnson works full time developing curriculum for Cisco Networking Academy. Allan also is a part-time instructor at Del Mar College in Corpus Christi, Texas. Use this book with: LAN Switching and Wireless, CCNA Exploration Companion Guide ISBN-10: 1-58713-207-9 ISBN-13: 978-158713-207-0 Companion CD-ROM The CD-ROM provides all the Packet Tracer Activity, Packet Tracer Companion, and Packet Tracer Challenge files that are referenced throughout the

book as indicated by the icons. These files work with Packet Tracer v4.1 software, which is available through the Academy Connection website. Ask your instructor for access to the Packet Tracer software. 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. The National Guide to Educational Credit for Training Programs John Wiley & Sons The only authorized Labs and Study

Guide for the Cisco Networking Academy Program, Routers and Routing Basics CCNA 2 Labs and Study Guide supplements version 3.1.1 of the Cisco Networking Academy[registered] Program CCNA[registered] 2 course. This Guide maximizes your understanding of: configuring a router; managing Cisco IOS[registered] Software; selecting a routing protocol; verifying and troubleshooting a network; and implementing basic security with access control lists. Each chapter contains a Study Guide section and a Lab Exercises section. Keep all your

completed work on hand in this book to study from later, or take advantage of the perforated pages to tear out and hand in specific material for homework assignments. Over 200 exercises in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate. Each chapter is slightly different and includes some or all the following types of exercises: vocabulary matching and completion; skill building activities and scenarios; configuration scenarios; concept questions; journal entries; and internet research. you review

all the commands covered in the chapter. The book includes all 55 labs from the online course with an additional 15 labs in which you can apply your knowledge about the technologies and concepts introduced. You will get ample opportunity for hands-on practice in three different types of labs: Curriculum Labs are step-by-step exercises designed to introduce you to new concepts. Presenting you with detailed instructions and sometimes additional explanations for completing the lab, Curriculum Labs come directly from the CCNA 2 online course;

Comprehensive Labs combine the concepts learned from the course and Curriculum Labs into new experiments. These Exercises provide minimal guidance. You are encouraged to complete the Curriculum Labs before moving on to a Comprehensive Lab; and Challenge Labs are unique labs requiring a thorough understanding of the previously learned network concepts. You should complete all Curriculum Labs and Comprehensive Labs before attempting a Challenge Lab. Additionally, the appendix includes a CCNA 2 Skills-Based Assessment practice

lab. be well prepared to continue your networking education in the CCNA courses that follow. Use this book with Routers and Routing Basics CCNA 2 Companion Guide (ISBN: 1-58713-166-8). Allan Johnson is an information technology instructor at Mary Carroll High School and Del Mar College in Corpus Christi, Texas. Since 2003, Allan has committed much of his time and energy to the CCNA Instructional Support team, creating training materials and providing services for instructors worldwide. He is a

familiar voice on the Cisco Networking Academy Community forum Ask the Experts series. This book is part of the Cisco Networking Academy Program series from Cisco Press[registered]. The products in this series support and complement the Cisco Networking Academy Program online curriculum. Network Basics Companion Guide Pearson Education Highlights over 6,000 educational programs offered by business, labor unions, schools, training suppliers, professional and voluntary associations, and government agencies. **Introduction to Networking**

Basics John Wiley & Sons Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP®/CCDP®/CCIP® preparation. As part of the Cisco Press Foundation Learning Series, this book teaches you how to plan, configure, maintain, and scale a routed network. It focuses on using Cisco routers connected in LANs and WANs typically found at

medium-to-large assess and network sites. After completing this book, you will be able to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. 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

ROUTE 642-902 exam. Serves as the official book for the Cisco Networking Academy CCNP ROUTE course Includes all the content from the e-Learning portion of the Learning@ Cisco ROUTE course Provides a thorough presentation of complex enterprise network frameworks, architectures, and models, and the process of creating, documenting, and executing an implementation plan Details Internet Protocol (IP)

reinforce your understanding of the material. Throughout the book there are many configuration examples and sample verification outputs demonstrating troubleshooting techniques and illustrating critical issues surrounding network operation. Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the

routing	chapter	The definitive
protocol	objectives, and	study guide for
principles	summaries to	the new CCNA
Explores	facilitate	and CCNP
Enhanced	effective	certifications
Interior	studying This	CCNA
Gateway Routing	book is in the	Certification
Protocol	Foundation	Practice Test:
(EIGRP), Open	Learning Guide	Exam 200-301 is
Shortest Path	Series. These	the definitive
First (OSPF),	guides are	practice guide
and Border	developed	for
Gateway	together with	professionals
Protocol (BGP)	Cisco® as the	preparing for
Examines how to	only	the new CCNA or
manipulate	authorized,	CCNP
routing updates	self-paced	certifications,
and control the	learning tools	and for those
information	that help	looking to
passed between	networking	master the
them Covers	professionals	latest
routing	build their	technologies in
facilities for	understanding	Cisco
branch offices	of networking	networking
and mobile	concepts and	fundamentals.
workers	prepare for	The practice
Investigates IP	Cisco	exams, written
Version 6	certification	by 17-year
(IPv6) in	exams.	industry
detail Presents	CCNA 200-301	professional
self-assessment	Official Cert	Jon Buhagiar,
review	Guide, Volume	explore a broad
questions,	2 Lulu.com	range of exam

objectives essential for passing the certification exam. The CCNA exam provides the certification needed to grow your IT career. Each practice exam in this book is designed to prepare you to pass the CCNA by imparting the skills, knowledge, and practical coursework needed to master all exam topics. This book includes access to six practice tests featuring 1,200 exam questions, as well as two full practice exams. Most importantly,

the six practice tests featured in Certification Practice Tests Exam 200-301 cover a variety of topics, including: Security fundamentals Automation and programmability IP services IP connectivity Network fundamentals In addition to a plethora of exam topics and plenty of sample questions to prepare you for the CCNA exam, readers will also have access to online test tools featuring additional practice

questions and study tools to assist in reinforcing the knowledge you've gained with the book. Learn the foundational knowledge you need to pass the CCNA or CCNP and take your career to the next level by preparing with CCNA Certification Practice Tests. **Computer Networking** 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 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 the CCNA 200-301 Official Cert Guide, Volume 1. This eBook, combined with the CCNA 200-301 Official Cert

Guide Volume 2, make cover all of exam topics on the CCNA 200-301 exam. This eBook does not include the practice exams that comes with the print edition. CCNA 200-301 Official Cert Guide, Volume 1 presents you with an organized test-preparation routine using 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

referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNA 200-301 Official Cert Guide, Volume 1 from 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 and expert instructor Wendell Odom shares preparation hints and test-taking tips, helping you identify areas

of weakness and Simulator Lite to help you improve both software, craft your your conceptual complete with review and test-knowledge and meaningful lab taking hands-on exercises that strategies . skills. This help you hone Study plan complete study your hands-on suggestions and package skills with the templates to includes . A te command-line help you st-preparation interface for organize and routine proven routers and optimize your to help you switches . study time Well pass the exams Links to a regarded for . Do I Know series of hands-its level of This Already? on config labs detail, study quizzes, which developed by plans, enable you to the author . assessment decide how much Online, features, time you need interactive challenging to spend on practice review each section . exercises that questions and Chapter-ending help you hone exercises, and part-ending your knowledge video exercises, . More than 90 instruction, which help you minutes of and hands-on drill on key video mentoring labs, this concepts you from the author official study must know . A final guide helps you thoroughly . A preparation master the free copy of chapter, which concepts and the CCNA guides you techniques that 200-301 Volume through tools ensure your 1 Network and resources exam success.

The CCNA 200-301 Official Cert Guide, Volume 1, combined with CCNA 200-301 Official Cert Guide, Volume 2, walk you through all the exam topics found in the Cisco 200-301 exam. Topics covered in Volume 1 include:

- Networking fundamentals
- Implementing Ethernet LANs
- Implementing VLANs and STP
- IPv4 addressing
- IPv4 routing
- OSPF
- IPv6
- Wireless LANs

Companion Website: The companion website contains the

CCNA Network Simulator Lite software, online practice exercises, study resources, and 90 minutes of video training. In addition to the wealth of updated content, this new edition includes a series of free hands-on exercises to help you master several real-world configuration and troubleshooting activities. These exercises can be performed on the CCNA 200-301 Network Simulator Lite, Volume 1 software

included for free on the companion website that accompanies this book. This software, which simulates the experience of working on actual Cisco routers and switches, contains the following 21 free lab exercises, covering topics in Part II and Part III, the first hands-on configuration sections of the book:

1. Configuring Local Usernames
2. Configuring Hostnames
3. Interface Status I
4. Interface Status II
5. Interface

Status III 6.	Configuration	Challenge in
Interface	Scenario 20.	order to be
Status IV 7.	Configuring	incorporated
Configuring	VLANs	into Saylor's
Switch IP	Configuration	collection of
Settings 8.	Scenario 21.	open courses
Switch IP	VLAN	available at:
Address 9.	Troubleshooting	http://www.saylor.org . Free
Switch IP	<i>Networking for</i>	PDF 282 pages
Connectivity I	<i>Home and Small</i>	at https://www.textbookequity.org/bonaventure-computer-networking-principles-protocols-and-practice/
10. Switch CLI	<i>Businesses,</i>	
Configuration	<i>CCNA Discovery</i>	
Process I 11.	<i>Learning Guide</i>	
Switch CLI	Pearson	
Configuration	Education	
Process II 12.	Original	
Switch CLI Exec	textbook (c)	
Mode 13.	October 31,	
Setting Switch	2011 by	
Passwords 14.	Olivier	
Interface	Bonaventure,	
Settings I 15.	is licensed	
Interface	under a	
Settings II 16.	Creative	
Interface	Commons	
Settings III	Attribution	
17. Switch	(CC BY)	
Forwarding I	license made	
18. Switch	possible by	
Security I 19.	funding from	
Switch	The Saylor	
Interfaces and	Foundation's	
Forwarding	Open Textbook	

operation of the Internet. 1
Preface 2
Introduction 3
The application Layer 4
The transport layer 5
The network layer 6
The datalink layer and the Local Area Networks 7
Glossary 8
Bibliography
LAN Switching and Wireless, CCNA Exploration Companion Guide
Greenwood Publishing Group
Presenting material covered on the CCNA certification exam, this study guide includes numerous review

questions and case projects to reinforce the hands-on skills needed for certification and success. The CD-ROM features 50-question CoursePrep exam preparation software; and an optional lab manual provides extensive lab exercises and hands-on projects. A Practical Guide to Advanced Networking
Cisco Press
An instruction

manual for use with the fifth edition of Understanding Fiber Optics by Jeff Hecht. This book includes an overview for instructors, answers to quizzes and "questions to think about" published in the book, worked-out solutions to selected problems with equations, and additional material to

supplement the book. This is the original manual prepared and published in 2006 along with the fifth edition of Understanding Fiber Optics, with only minimal updates.

Living with Computers

Cisco Press
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:	answer key:	questions you
Review core	Evaluate your	might see on
concepts by	readiness	the CCNA
answering the	with the	exam. The
questions	updated end-	answer key
listed at the	of-chapter	explains each
beginning of	questions	answer. Wayne
each chapter.	that match	Lewis is the
Key terms:	the style of	Cisco Academy
Refer to the	questions you	Manager for
updated lists	see on the	the Pacific
of networking	online course	Center for
vocabulary	quizzes. The	Advanced
introduced	answer key	Technology
and turn to	explains each	Training
the	answer.	(PCATT),
highlighted	Challenge	based at
terms in	questions and	Honolulu
context in	activities:	Community
each chapter.	Strive to ace	College. How
Glossary:	more	To: Look for
Consult the	challenging	this icon to
all-new	review	study the
comprehensive	questions and	steps that
glossary with	activities	you need to
more than 190	designed to	learn to
terms. Check	prepare you	perform
Your	for the	certain
Understanding	complex	tasks. Packet
questions and	styles of	Tracer

Activities: 1-58713-202-8 booklet Taking
Explore ISBN-13: 978- Notes: A .txt
networking 1-58713-202-5 file of the
concepts in Companion CD- chapter
activities ROM **See objectives
interspersed instructions More IT
throughout within the Career
some chapters ebook on how Information
using Packet to get access Tips on
Tracer v4.1 to the files Lifelong
developed by from the CD- Learning in
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activities book.** The Cisco
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CD-ROM. Also useful tools Series from
available for and Cisco Press®.
the LAN information Books in this
Switching and to support series
Wireless your support and
course: LAN education: complement
Switching and Packet Tracer the Cisco
Wireless, Activity Networking
CCNA exercise online
Exploration files A Guide curriculum.
Labs and to Using a **Network**
Study Guide Networker's **Fundamentals**
ISBN-10: Journal Cisco Press

Finally, there's a resource for the networking novice! *Networking Basics* provides an accessible introduction to network concepts from the underlying standards, through local and wide-area network configurations, up to configurations found in massive enterprise networks. Readers will learn how to design and construct both wired and wireless networks, gaining insight into both hardware and software requirements. They'll also find out how to match network capabilities to organizational needs. **Computer Networking** Cisco Press 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 concepts by 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

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 quizzes. The the book with
 and answer key this icon.
 Labs—Maximiz explains Videos—Watch
 e your study each answer. the videos
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 exercises at learn to per ities—Explor
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 chapter. Interactive networking
 Check Your U Activities—R concepts
 nderstanding einforce using Packet
 —Evaluate your Tracer
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 questions different chapters.
 that match exercises Hands-on
 the style of from the Labs—Work
 questions online through all
 you see in course 68 course
 the online identified labs and
 course throughout Class

Activities that are included in the course and published in the separate Lab Manual. CCNA 1 V7 Labs and Study Guide Goodheart-Wilcox Publisher CD-ROM includes "a limited version of MeasureUp's CCNA test prep software, including 50 sample exam questions and a test engine"--Page xiii *Network Fundamentals, CCNA Exploration Companion*

Guide Jeff Hecht A fresh look at routing and routing protocols in today's networks. A primer on the subject, but with thorough, robust coverage of an array of routing topics Written by a network/routing instructor who could never find quite the right book for his students -so he wrote his own Coverage of all routing

protocols. In-depth coverage of interior routing protocols, with extensive treatment of OSPF. Includes overview of BGP as well Not written as a "pass the test" guide. Rather, a close look at real world routing with many examples, making it an excellent choice for preparing for a variety of certification exams Many

extras including a networking primer, TCPIP coverage with thorough explanations of subnetting / VLSMs / CIDR addressing, route summarization, discontinuous networks, longest match principal, and more. Trade and Industrial Education Pearson Education Network Fundamentals, CCNA Exploration Companion Guide is the

official supplemental textbook for the Network Fundamentals course in the Cisco® Networking Academy® CCNA® Exploration curriculum version 4. The course, the first of four in the new curriculum, is based on a top-down approach to networking. 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 highlighted in context in each chapter. Glossary-Consult the 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-Stive 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. How To-Look for this icon to study the steps 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 Network Fundamentals

Course Network Packet Tracer Networking
Fundamentals, Activity Academy
CCNA exercise Series from
Exploration files v4.1 Cisco Press®.
Labs and VLSM The products
Study Guide Subnetting in this
ISBN-10: Chart series
1-58713-203-6 Structured support and
ISBN-13: 978- Cabling complement
1-58713-203-2 Exploration the Cisco
Companion CD- Supplement Networking
ROM **See Taking Notes: Academy
instructions a .txt file online
within the of the curriculum.
ebook on how chapter **Laboratory**
to get access objectives A **Manual for**
to the files Guide to **Introductory**
from the CD- Using a **Geology**
ROM that Networker's Copyright
accompanies Journal Office,
this print booklet IT Library of
book.** The Career Congress
CD-ROM Information The only
provides many Tips on authorized
useful tools Lifelong Lab Manual
and Learning in for the
information Networking Cisco
to support This book is Networking
your part of the Academy CCNA
education: Cisco

Cybersecurity of the CCNA Operations Cybersecurity course Curriculum Objectives. CCNA Cybersecurity Operations 1.0 covers knowledge and skills needed to successfully handle the tasks, duties, and responsibilities of an associate-level Security Analyst working in a Security Operations Center (SOC). Upon completion

Cybersecurity Operations 1.0 course, students will be able to perform the following tasks:
Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide
Houghton Mifflin Harcourt P Networking Fundamentals teaches the basic concepts and terminology of networking and is designed to

prepare students for the CompTIA Network+ Certification Exam. The text covers media types and standards and how data is encoded and transmitted. Students are also introduced to the terminology and basic concepts of each network operating system. The Open Systems Interconnection (OSI) model is introduced in the first chapter,

revisited throughout the textbook, and then examined in detail in Chapter 16, A Closer Look at the OSI Model. A complete chapter is dedicated to TCP/IP and another to subnetting. Teaches the student how to maintain, troubleshoot, design, and install networks. Includes Sample Network+ Exam Questions, Network+ Key Points, Network+

Notes, and a practice Network+ exam. Each chapter includes one laboratory activity taken from the Laboratory Manual. Meets requirements of the CompTIA Authorized Quality Curriculum Program, covering all objectives of the CompTIA Network+ Certification Exam. *Trade and Industrial Education; Instructional Materials*

Pearson Education This revolutionary text and its accompanying CD replace a whole lab full of computer equipment. They give computer science students realistic hands-on experience working with network protocols, without requiring all the routers, switches, hubs, and PCs of an actual network. Using the latest

version of the and taking
open source traces. It
program can even
Ethereal, the relieve the
reader opens anxiety
packet trace system
files from administrator
the CD and s have about
follows the students
text to collecting
perform the traces on
exercises, campus
gaining a networks!
thorough CCNA
understanding Certification
of the Practice
material in Tests Pearson
the best way Education
possible—by India
seeing it in 'Network
action. This Fundamentals'
approach also is a complete
benefits the collection of
instructor, the exercises
who is spared specifically
the time- written for
consuming the CCNA
tasks of Exploration
maintaining a course in the
laboratory Cisco

Networking
Academy
Program. The
book is
designed to
give students
practice
exercises and
hands-on labs
to study the
course
concepts in-
depth.