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skills needed
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needed to**

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terms in
context in
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comprehensive
glossary with
more than 190
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Understanding
questions and
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the updated
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questions that
match the
style of
questions you**

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include**

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**configuration,
installation,
and troublesho
oting. 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

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vocabulary
introduced
and
highlighted in
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The Glossary
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key term.
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chapter
questions that
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quizzes. The
answer key
explains each**

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answer.

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of the
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exam. The
author has
mapped the
chapters of
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and Switching
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Networks and
Connecting
Networks.**

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skills required
to successfully
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and resources to
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suggestions and
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***Best-selling
author and
expert
instructor
Wendell Odom
shares
preparation
hints and test-
taking tips,
helping you
identify areas
of weakness and
improve both
your conceptual***

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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

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*time you need to
spend on each
section Chapter-
ending and part-
ending
exercises, which
help you drill
on key concepts
you must know
thoroughly
Troubleshooting
sections, which
help you master
the complex*

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**scenarios you
will face on the
exam A free copy
of the CCNA
ICND1 and ICND2
Network
Simulator Lite
software,
complete with
meaningful lab
exercises that
help you hone
your hands-on
skills with the**

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***command-line
interface for
routers and
switches More
than 150 minutes
of personal
video mentoring
from the author
Final
preparation
chapters, which
guide you
through tools
and resources to***

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*help you craft
your review and
test-taking
strategies Study
plan suggestions
and templates to
help you
organize and
optimize your
study time These
official study
guides help you
master all the
topics on the*

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CCNA exams,
including:
Networking
fundamentals
Ethernet LANs
and switches
IPv4 addressing
and subnetting
Operating Cisco
routers
Configuring OSPF
ACLs and NAT
IPv6
fundamentals,

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***implementation,
and
troubleshooting
LAN switching
IPv4 routing
VPNs OSPF and
EIGRP
configuration
and
troubleshooting
Wide area
networks and
Frame Relay
Network***

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*management Well
regarded for its
level of detail,
study plans,
assessment
features,
challenging
review questions
and exercises,
video
instruction, and
hands-on labs,
these official
study guides*

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help you master the concepts and techniques that ensure your exam success. Wendell Odom, CCIE No. 1624, is the most respected author of Cisco networking books in the world. His past titles include books on the entry-level

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**Cisco
certifications
(CCENT and
CCNA), the more
advanced CCNP,
and the industry-
renowned CCIE.
His books are
known for their
technical depth
and accuracy.
Wendell has
worked as a
network**

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***engineer,
consultant,
instructor,
course
developer, and
book author, and
he has produced
videos,
software, and
blogs related to
Cisco
certifications.
Includes 26 free
CCNA Network***

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Simulator labs:
ICND1

- 1. Configuring IP Addresses I**
- 2. Configuring IP Addresses II**
- 3. Connected Routes**
- 4. Static Routes I**
- 5. Static Routes II**
- 6. Subnet Zero**
- 7. Loopback Interfaces**
- 8. Subnet ID**

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Calculation 9.

IPv4 Address

Rejection 10.

IPv4 Route

Selection 11.

***Subnetting and
Addressing***

Configuration

Scenario 12.

Static Routing

Configuration

Scenario 13.

Network

Discovery

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**Troubleshooting
Scenario ICND2**

**1. EIGRP Serial
Configuration I**

**2. EIGRP Serial
Configuration II**

**3. EIGRP Serial
Configuration**

III 4. EIGRP

**Frame Relay
Configuration I**

**5. EIGRP Frame
Relay**

Configuration II

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- 6. EIGRP Route
Tuning I** 7.
**EIGRP Route
Tuning II** 8.
**EIGRP Neighbors
II** 9. **EIGRP
Neighbors III**
10. **EIGRP
Configuration
Scenario I** 11.
**EIGRP
Configuration
Scenario II** 12.
EIGRP Metric

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***Manipulation
Configuration
Scenario 13.***

Path

***Troubleshooting
Scenario CCENT
and CCNA Network
Simulator Lite
minimum system
requirements:***

***Microsoft
Windows XP
(SP2/SP3),
Windows Vista***

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(32-bit/64-bit)

with SP1,

Windows 7

(32-bit/64-bit)

or Windows 8

(32-bit/64-bit),

Mac OS X 10.6,

10.7, or 10.8

Intel® Pentium®

III 1GHz or

faster processor

(Windows) or

Intel Core™ Duo

1.83GHz or

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***faster processor
(Mac) 512 MB RAM
(1 GB
recommended) 1.5
GB hard disk
space 32-bit
color depth at
1024 x 768
resolution Adobe
Acrobat Reader
version 8.0 or
higher Other
applications
installed during***

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installation:

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Captive JRE 6

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Manual for the

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Academy CCNA

Security course

The Cisco®

Networking

Academy® course

on CCNA®

Security

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provides a next step for students who want to expand their CCNA-level skill set to prepare for a career in network security. The CCNA Security course also prepares students for the

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***Implementing
Cisco IOS®
Network Security
(IINS)
certification
exam (xxxx),
which leads to
the CCNA
Security
certification.
The CCNA
Security Lab
Manual provides
you with all***

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labs from the course designed as hands-on practice to master the knowledge and skills needed to prepare for entry-level security specialist careers. All the hands-on labs in the course can

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be completed on actual physical equipment or in conjunction with the NDG NETLAB+® solution. For current information on labs compatible with NETLAB+® go to <http://www.netdevgroup.com/ae/labs.htm>.

Through

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*procedural,
skills
integration
challenges,
troubleshooting,
and model
building labs,
this CCNA
Security course
aims to develop
your in-depth
understanding of
network security
principles as*

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Version

*well as the
tools and
configurations
used.*

*Switched
Networks
Companion Guide
is the official
supplemental
textbook for the
Switched
Networks course
in the Cisco®
Networking*

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**Academy® CCNA®
Routing and
Switching
curriculum. This
course describes
the
architecture,
components, and
operations of a
converged
switched
network. You
will learn about
the hierarchical**

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network design model and how to configure a switch for basic and advanced functionality. By the end of this course, you will be able to troubleshoot and resolve common issues with Virtual LANs and inter-VLAN

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routing in a converged network. You will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. The Companion Guide is designed as a portable desk

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Manual Instructor
Version

*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*

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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

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Switch Ccna 3 Lab
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chapter.

*Glossary—Consult
the*

comprehensive

*Glossary more
than 300 terms.*

Summary of

Activities and

Labs—Maximize

your study time

with this

complete list of

all associated

practice

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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

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***answer key
explains each
answer. Related
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To-Look for this
icon to study
the steps you
need to learn to
perform certain***

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tasks.

Interactive Activities—Reinforce your understanding of topics with all the different exercises from the online course identified throughout the book with this icon.

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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-

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***on Labs—Work
through all the
course labs and
Class Activities
that are
included in the
course and
published in the
separate Lab
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key concepts
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include the
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with practice
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exam the first
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only self-study
resource
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engineer David
Hucaby shares**

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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-***

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*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*

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*help you drill
on key concepts
you must know
thoroughly The
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IT Certification
Practice Test
software,
complete with
hundreds of well-
reviewed, exam-
realistic
questions,
customization*

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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***

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*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,*

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*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*

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hands-on
training from
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products from
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about instructor-
led training, e-
learning, and
hands-on
instruction
offered by
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Protocol (VTP)
Spanning Tree
Protocol (STP),
RSTP, and MSTP
Protecting the
STP topology
Aggregating
switch links
Multilayer
switching
Configuring DHCP***

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managing
switches with
SNMP Monitoring
performance and
traffic High
availability
Securing
switched
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Advanced Routing

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CCNA Routing and

Switching

Practice and

Study Guide

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*Contributions by Rick
Graziani and Bob
Vachon.*

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CCNA-level Routing and Switching commands you need in one condensed, portable resource. The CCNA Routing and Switching Portable Command Guide, Third Edition, is filled with valuable, easy-to-access information and is portable enough for use

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whether you're in the server room or the equipment closet. The guide summarizes all CCNA certification-level Cisco IOS® Software commands, keywords, command arguments, and associated prompts, providing you with tips and examples of how to apply the

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Configuration examples throughout the book provide you with a better understanding of how these commands are used in simple network designs. This book has been completely updated to cover topics in the

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Part II Introduction to
Cisco Devices • Part
III Configuring a
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Routing • Part V
Switching • Part VI
Layer 3 Redundancy •
Part VII IPv6 • Part
VIII Network
Administration and
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Part IX Managing IP*

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Services • Part X

WANs • Part XI

Network Security

Quick, offline access

to all CCNA Routing

and Switching

commands for

research and solutions

Logical how-to topic

groupings for a one-

stop resource Great

for review before

CCNA Routing and

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*quickly reference
specific tasks*

*Introduction to
Networks Companion
Guide is the official
supplemental textbook
for the Introduction to
Networks course in
the Cisco®
Networking
Academy® CCNA®
Routing and Switching
curriculum. The*
Page 375/414

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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

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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

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*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*

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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.

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quizzes. The answer
key explains each
answer. Related Title:
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ISBN-10:
1-58713-312-1
ISBN-13:
978-1-58713-312-1
How To–Look for this
icon to study the steps
you need to learn to*

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perform certain 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

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Activities—Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters. Hands-on Labs—Work through all 66 course labs and Class Activities that are included in the course and published in the separate Lab

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Manual. 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.

Scaling Networks v6 Companion Guide is the official supplemental textbook

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*for the Scaling
Networks v6 course in
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Academy CCNA
Routing and Switching
curriculum. 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.*

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- *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*

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*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*

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exercises at the end of each chapter. · Check Your Understanding— Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. How To—Look for this icon to study

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the steps you need to learn to perform certain tasks.

Interactive

Activities—Reinforce your understanding of topics with dozens of exercises from the online course

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within the online course. Packet Tracer Activities—Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters and provided in the accompanying Labs & Study Guide book. Hands-on Labs—Work through

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*all the course labs and
additional Class*

*Activities that are
included in the course
and published in the
separate Labs & Study
Guide.*

*The completely
revised and only
authorized Labs and
Study Guide for the
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portable classroom*

resource that supports

the topics in the

CCNA 3 curriculum

aligning 1:1 with

course modules

Includes all the labs in

the online curriculum

as well as additional

instructor-created

challenge labs for

extended learning and

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classroom exercises
Written by leading
Academy instructor
Allan Johnson, who
brings a fresh voice to
the course material
The all-new Labs and
Study Guide titles
combine the best of
the former Lab
Companions and
Engineering Journal
and Workbooks with

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the CCNA 3 course in the Cisco Networking Academy Program, designed to give students hands-on experience in a particular concept or technology. Each lab contains an introductory overview, a preparation/tools required section, explanations of

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commands, and step-by-step instructions to reinforce the concepts introduced in the online course and covered in the Companion Guide. NEW: Challenge labs written by Academy instructors, tested in their classrooms will be included as additional or

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alternative labs. The Study Guide section is designed to provide additional exercises and activities to reinforce students' understanding of the course topics, preparing them for the course assessments. As a study guide it will also continue to provide ample writing

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opportunities to guide students into the habit of keeping notes on networking topics.

Routing and Switching Essentials Companion Guide is the official supplemental textbook for the Routing and Switching Essentials course in the Cisco® Networking

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Routing and Switching curriculum. This course describes the architecture, components, and operations of routers and switches in a small network. You learn how to configure a router and a switch for basic functionality. By the end of this course, you will be

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able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. The Companion Guide is designed as a portable

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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
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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.

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readiness with the end-
of-chapter questions
that match the style of
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*the online course
quizzes. The answer
key explains each
answer. Related Title:
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Essentials Lab
Manual How To–Look
for this icon to study
the steps you need to
learn to perform
certain tasks.*

*Interactive
Activities–Reinforce*

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networks. The CCNP*

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certification requires candidates to pass three 120-minute exams-ROUTE 300-101, SWITCH 300-115, TSHOOT 300-135-that validate the key competencies of network engineers. The Cisco Networking Academy curriculum consists of three experience-oriented

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*courses that employ
industry-relevant
instructional
approaches to prepare
students for
professional-level
jobs: CCNP ROUTE:
Implementing IP
Routing, CCNP
SWITCH:
Implementing IP
Switching, and CCNP
TSHOOT:*

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Maintaining and Troubleshooting IP Networks. This course teaches students how to implement, monitor, and maintain switching in converged enterprise campus networks. Students will learn how to plan, configure, and verify the implementation of

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*complex enterprise
switching solutions.*

*The course also
covers the secure
integration of VLANs,
WLANs, voice, and
video into campus
networks.*

*Comprehensive labs
emphasize hands-on
learning and practice
to reinforce
configuration skills.*

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The 15 comprehensive labs in this manual emphasize hands-on learning and practice to reinforce configuration skills.

[Switching Basics and Intermediate Routing Exam 38 Cert Guide CCNA Voice Lab Manual Core Networking \(ENCOR\) V8 Lab](#)

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