



# CCNA Practical Studies (Cisco Certification & Training)

By Gary Heap, Lynn Maynes



**CCNA Practical Studies (Cisco Certification & Training)** By Gary Heap, Lynn Maynes

Practice for the new CCNA exam #640-801, as well as #640-607, with hands-on networking lab scenarios

- Build your own home internetworking lab from the ground up and use it to master essential internetworking skills
- Select Cisco router components and navigate within Cisco IOS(r) Software
- Gain access to Cisco routers and switches and configure a terminal server to access each lab router
- Configure hostnames and set passwords
- Configure router interfaces such as Ethernet, Token Ring, Loopback, and Serial
- Configure multiple routing protocols, including RIP, IGRP, and EIGRP
- Implement route redistribution to share routing information between routing domains
- Connect remote offices to the main network with ISDN DDR
- Integrate IPX into the network
- Control access with standard and extended access lists
- Troubleshoot common network failures

Understanding the concepts covered on the Cisco Certified Network Associate exam is no longer sufficient to succeed on the test. In order to be completely prepared to succeed on the exam, as well as in your daily job as a CCNA engineer, you must be able to apply conceptual knowledge effectively in a production environment. *CCNA Practical Studies* is the first book of its kind, providing you with a series of detailed lab scenarios that illustrate the application of key internetworking topics.

*CCNA Practical Studies* is a comprehensive reference that helps you gain essential hands-on experience in home-, work-, or remote access-based lab environments. An equally effective supplement to concept-based study guides or stand-alone reference for applying CCNA knowledge pre- or post-test, this book presents numerous examples that cover the entire range of CCNA topics. Starting at the physical layer of the OSI model, you use a layered approach to learn how to build a small network.

Each chapter tackles a major subject area such as router configuration, routing protocols, bridging and switching, ISDN, access lists, IPX, and more. Each subject presents a mini-lab, walking you through the lab scenario and explaining in detail the commands used, why the authors chose the specific commands, and the resulting configurations. Comprehensive configuration and troubleshooting labs are added to the end of the book, allowing you to understand how routing technologies interact. This step-by-step lab scenario approach is designed to teach you how to apply the knowledge acquired in the process of becoming a CCNA. Whether you are preparing for the CCNA exam, seeking to enhance your on the job skills, or looking to gain confidence before your next job interview, you will find the lessons laid out in this book invaluable.

This book is part of the Cisco Press Practical Studies Series, which offers readers a means to apply theoretical knowledge through hands-on lab scenarios for key networking technologies. This unique approach enables readers to practice and hone their internetworking skills while preparing for Cisco certification exams.



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### Editorial Review

#### From Library Journal

Since Cisco manufactures much of the hardware underlying both corporate LANs and the Internet, network professionals appreciate material covering Cisco basics. Practical Studies targets network professionals studying for their Cisco Certification Network Assistant (CCNA) exam, focusing mostly on the newer performance-based testing section. It provides hands-on information about configuring and troubleshooting a complex network using Cisco devices. Although the recommended lab simulation equipment is pricey, the book can be used as a study guide on its own; step-by-step resolutions of real-world scenarios are helpful both as study aids and as practice for network professionals. Complete Reference is a professional-level source on configuring and troubleshooting Cisco devices. Useful features include charts on product characteristics/capabilities and an extensive appendix that summarizes Cisco commands and refers back to lengthier chapter explanations. Both titles are recommended for larger libraries where advanced networking titles circulate.

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#### From the Back Cover

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#### About the Author

**Gary T. Heap**, CCIE(r) #6411, is a Senior Network Systems Engineer for Cornerstone Internetworking Solutions, where he provides consulting and project services for various companies throughout the US. He has over 4 years of experience in analyzing, configuring, and managing large networks. Previous to joining Cornerstone, Gary worked as a Technical Solutions Consultant for Sprint ESolutions. His project experience at Sprint included upgrading routers, switches, and dial backup for a nationwide network; configuring backbone routers for wireless ISP; network assessment; and WAN redesign.

**Lynn Maynes**, CCIE #6569, is a Technical Solutions Consultant for Sprint ESolutions, where he provides network integration and project management services to various companies. He has over 8 years of experience designing, implementing, and supporting networking and telecommunications solutions. His experience with Sprint includes upgrading a nationwide network with routers, switches, and dial backup, installing backbone routers for wireless ISP, designing ISP network services over Sprint's DSL network, and network performance analysis and assessment. Previous to joining Sprint, Lynn worked for Kennecott, providing WAN support, LAN/WAN connectivity, and DCHP design and implementation. Lynn holds a BA in International Business from Westminster College.

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