



**Designing for Cisco Internetwork Solutions
(Desgn) Foundation Learning Guide (Paperback):
(Authorized Ccda Selfstudy Guide)(Exam 640-863)**

Diane Teare

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Authorized Self-Study Guide

Designing for Cisco Internetwork Solutions (DESGN)

Second Edition

Foundation learning for CCDA exam 640-863

Designing for Cisco Internetwork Solutions (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. 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.

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 for the Cisco Career Certifications examinations.

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