



Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide: (CCDA DESGN 640-864) (3rd Edition) (Foundation Learning Guides)

Sean Wilkins

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Designing for Cisco Internetwork Solutions (DESGN)

Foundation Learning Guide

Third Edition

Sean Wilkins

Foundation learning for the CCDA DESGN 640-864 exam

Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide, Third 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 involving LAN, WAN, and broadband access for businesses and organizations.

Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide, Third Edition teaches you how to gather internetworking requirements, identify solutions, and design the network infrastructure and services to ensure basic functionality using the principles of hierarchical network design to structure and modularize a converged enterprise network design. Specific topics include understanding the design methodology; structuring and modularizing the network design; designing the Enterprise Campus, Enterprise Data Center, Enterprise Edge, and remote modules as needed; designing an addressing plan and selecting suitable routing protocols; designing basic voice transport across the network; designing a basic wireless solution; and evaluating security solutions. 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) Foundation Learning Guide, Third 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.

- Understand network design methodologies and the lifecycle of a network
- Learn how to structure and modularize network designs within the Cisco Network Architectures for the Enterprise
- Design basic campus and data center networks
- Build designs for remote connectivity with WAN technologies
- Examine IPv4 and IPv6 addressing schemes
- Select the appropriate routing protocols for various modules in the enterprise architecture
- Evaluate security solutions for the network
- Identify voice and video networking considerations

- Understand design technologies and considerations when implementing a controller-based wireless network

This book is in the *Foundation Learning Guide Series*. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams.

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