

Cisco IP Switched Networks (CCNP Switch), Part 1 of 7: Network Design

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Meet the expert: As a certified Microsoft Instructor, Ken has focused his career on various security aspects of computer and network technology since the early 1980s. He has offered a wide variety of IT training and high level consulting projects for Fortune 500 companies globally. Through the course of his extensive career, he has taught a full line of Microsoft, CompTIA, Cisco, and other high level IT Security curricula.

Prerequisites: This is part 1 in the series.

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Course description: This course focuses on the theory and hierarchical models of design. It discusses how the choices in communications can improve future growth and scalability as well as how switches forward packets, and MAC addresses on Ethernet networks.

Course outline:

Network Design

- Introduction
- Hierarchical Design
- Access Layer
- Distribution Layer
- Core Layer
- Collapsed Core Option
- Collapsed Core
- Summary

- What Can You Power and PoE
- PoE eNotes
- PoE Negotiation
- Enabling PoE
- Summary
- Summary

Switch Types

- Introduction
- Types of Switches
- Routed vs. Switched Architecture
- Layer 2 Switching
- Other Switching Tables
- Multilayer Switching at the Access Layer
- How the Frame is Re-written at L3
- Cisco Distributed Hardware Model
- Summary

Switching Methods

- Introduction
- Introduction
- Switching Methods eNotes
- Route Caching
- Topology-Based Switching
- What Is SDM
- The New CDP
- Turn LLDP on
- What Power Options You Have