

Cisco IP Switched Networks (CCNP Switch), Part 2 of 7: Campus Area Network

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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 2 in the series.

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Course description: Switches in a campus area network. A large switch environment. VLAN, VLAN Trunking Protocol. cisco devices as DHCP servers. And other technologies to best use switches to run the network and how switches can help with the design of the network.

Course outline:

VLAN

- Introduction
- CAM
- CAM/VLAN eNotes
- Why VLANs?
- VLAN Configuration
- Demo: VLAN Basics
- Demo: Create VLAN
- Demo: Set up VLANs
- Demo: Empty VLANs
- Summary

Trunking

- Introduction
- Trunking
- DTP
- Demo: Review
- Demo: Trunking
- Demo: Ranges
- Summary

Trunking Connections

- Introduction
- Native VLAN
- Trunk Connections
- End-to-End VLAN
- VLAN Types eNotes
- Voice VLANs
- Demo: Voice VLANs
- Demo: Connect Voice Devices
- Summary

Connecting the Access Point

- Introduction

- Connecting the AP
- VLAN Trunking Protocol
- VTP Modes eNotes
- VTP Review
- Summary

VTP Versions

- Introduction
- VTP Versions
- Demo: VTP
- Demo: Automatic Domain Joining
- Configure Client IP Addresses
- Summary

DHCP Commands

- Introduction
- DHCP Commands
- DHCP Bindings
- Demo: Configure DHCP Server
- Demo: Assign DHCP Server
- DHCP Broadcasts
- Summary

DHCP and IPv6

- Introduction
- DHCP and IPv6
- SLAAC eNotes
- DHCP in IPv6
- Summary

IPv6 Demo

- Introduction
- Demo: Introduction
- Demo: IPv6
- Demo: Configure DHCP
- Demo: Prefix Delegation

- Summary

EtherChannel Protocols

- Introduction
- EtherChannel Protocols
- EtherChannel Requirements
- What Must Match
- Demo: EtherChannel
- EtherChannel Load Balancing
- Demo: Load Balancing
- Summary