ASM Educational Center (ASM) *Est. 1992*

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DCICN v1.0 - Introducing Cisco Data Center Networking
(Part of the CCNA Data Center certification track)

Course Outline

Module 1: Simple Network Design

Lesson 1: Understanding the Functions of Networking

Lesson 2: Understanding the Host-to-Host Communications Model

Lesson 3: Describing Ethernet Connections

Lesson 4: Describing Ethernet Communications Standards

Lesson 5: Describing OSI Network Layer Addressing

Lesson 6: Describing the TCP/IP Transport Layer

Lesson 7: Describing the Packet Delivery Process

Module 2: Switched Network Implementation

Lesson 1: Describing Switching

Lesson 2: Describing the Packet Delivery Process

Lesson 3: Describing Cisco NX-OS Software

Lesson 4: Operating Cisco NX-OS Software

Lesson 5: Implementing VLANs and Trunks

Lesson 6: Building a Redundant Switched Topology

Module 3: IP Addressing

Lesson 1: Describing an IP Addressing Scheme

Lesson 2: Transitioning to IPv6

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Module 4: Routing on the Cisco Nexus Switch

Lesson 1: Exploring the Packet Delivery Process

Lesson 2: Exploring the Routing Process on Cisco Nexus Switches

Lesson 3: Exploring Routing Protocols on Cisco Nexus Switches

Lesson 4: Exploring ACLs on Cisco Nexus Switches

Lab Outline

Lab 1-1: Using Windows Applications as Network Tools

Lab 1-2: Observing the TCP Three-Way Handshake

Lab 1-3: Observing Extended PC Network Information

Lab 2-1: Connecting to Cisco Nexus Switches

Lab 2-2: Configuring Cisco Nexus Switches

Lab 2-3: Configuring VLANs and Trunks

Lab 2-4: Verifying and Configuring Spanning Tree

Lab 2-5: Configuring EtherChannel

Lab 3-1: Converting Decimal to Binary and Binary to Decimal

Lab 3-2: Classifying Network Addressing

Lab 3-3: Computing Usable Subnetworks and Hosts

Lab 3-4: Calculating Subnet Masks

Lab 4-1: Configuring Multilayer Switching