ASM Educational Center (ASM) *Est. 1992*

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Cisco DCICT V1.0 Introducing Cisco Data Center Technologies (Part of CCNA Data Center Certification)

Course Outline

Module 1: Cisco Data Center Network Services
- Examining Functional Layers of the Data Center
- Reviewing the Cisco Nexus Product Family
- Reviewing the Cisco MDS Product Family
- Monitoring the Cisco Nexus 7000 and 5000 Series Switches
- Describing vPCs and Cisco FabricPath in the Data Center
- Using OTV on Cisco Nexus 7000 Series Switches

Module 2: Cisco Data Center Virtualization
- Virtualizing Network Devices
- Virtualizing Storage
- Virtualizing Server Solutions
- Using the Cisco Nexus 1000V Series Switch
- Verifying Setup and Operation of the Cisco Nexus 1000V Series Switch

Module 3: Cisco Data Center Storage Networking
- Comparing Storage-Connectivity Options in the Data Center
- Describing Fibre Channel Storage Networking
- Verifying Fibre Channel Communications on Cisco MDS 9000 Series Multilayer Switches

Module 4: Cisco Data Center Unified Fabric
- Describing DCB
- Identifying Connectivity Options for FCoE on the Cisco Nexus 5000 Series Switch
- Describing Enhanced FCoE Scalability with Cisco Nexus 2232 10GE Fabric Extenders

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Module 5: Cisco UCS

- Describing the Cisco UCS B-Series Product Family
- Describing the Cisco UCS C-Series Product Family
- Connecting Cisco UCS B-Series Blade Servers
- Setting up an Initial Cisco UCS B-Series Cluster
- Describing Cisco UCS Manager Operations
- Describing Cisco UCS Manager Pools, Policies, Templates, and Service Profiles

Lab Outline

Activity 1-1: Cisco Power Calculator (Instructor Demonstration Only)
Activity 1-2: Cisco Nexus 7000 Series Switch Initial Setup Script (Instructor Demonstration Only)
Lab 1-1: Connecting to a Cisco Nexus 7000 Series Switch Using SSH
Activity 1-3: Cisco Nexus 5000 Series Switch Initial Setup Script (Instructor Demonstration Only)
Lab 1-2: Connecting to a Cisco Nexus 5000 Series Switch Using SSH
Lab 1-3: Running CLI Commands
Lab 1-4: Configuring vPCs
Lab 1-5: Validating Cisco FabricPath Configuration
Lab 1-6: Validating OTV Configuration
Lab 2-1: Verifying Current VDC Settings
Lab 2-2: Validating a Cisco Nexus 2000 Series Fabric Extender Configuration
Lab 2-3: Validating a Cisco Nexus 1000V Series Switch Configuration
Activity 3-1: Cisco MDS 9100 Series Multilayer Fabric Switch Initial Setup (Instructor Demonstration Only)
Lab 3-1: Validating a Cisco MDS 9100 Series Multilayer Fabric Switch License
Lab 3-2: Configuring VSANs and Zoning
Lab 3-3: Validating FLOGI and FCNS
Lab 3-3: Viewing the tech-support Command Output
Lab 4-1: Validating the Physical Connections for FCoE
Activity 5-1: Cisco UCS 6120XP Fabric Interconnect Initial Setup Script (Instructor Demonstration Only)
Activity 5-2: Configuring Server Ports and Chassis Discovery (Instructor Demonstration Only)
Lab 5-1: Exploring the Cisco UCS Manager GUI
Lab 5-2: Creating a Service Profile from a Template and Performing VMware ESXi 5.0 SAN Boot