

DCICT - Introducing Cisco Data Center Technologies (DCICT) v1.0

Duration: 5 days

Overview:

In this course, you will be introduced to the Cisco technologies that are deployed in the data center, including unified computing, unified fabric, and network services. Through hands-on labs, you will focus on verifying configurations, making configuration changes, and designing new topologies. This course is targeted for individuals who can perform only the more basic configuration tasks.

Pre-requisites:

Before attending this course, students must have:

- [DCICN - Introducing Cisco Data Centers Networking v1.0](#) or equivalent knowledge

At Course Completion:

After completing this course, students will be able to:

- Cisco data center fundamentals
- Cisco data center virtualisation
- Cisco data center storage networking
- Cisco data center unified fabric
- Cisco Unified Computing System (UCS)

Module 1: Cisco Data Center Network Services

Lessons

- Functional Layers of the Data Center
- Cisco Nexus Product Family
- Cisco MDS Product Family
- Monitoring the Cisco Nexus 7000 and 5000 Series Switches
- Virtual Port Channels (vPCs) and Cisco FabricPath in the Data Center
- Using OTV on Cisco Nexus 7000 Series Switches

Labs

- Connect to a Cisco Nexus 7000 Series Switch Using Secure Shell (SSH)
- Connect to a Cisco Nexus 5000 Series Switch Using SSH
- Run Command Line Interface (CLI) Commands
- Configure vPCs
- Validate Cisco FabricPath Configuration
- Validate Overlay Transport Virtualisation (OTV) Configuration

Module 2: Cisco Data Center Virtualisation

Lessons

- Virtualising Network Devices
- Virtualising Storage
- Virtualising Server Solutions
- Using the Cisco Nexus 1000V Series Switch
- Verifying Setup and Operation of the Cisco Nexus 1000V Series Switch

Labs

- Verify Current Virtual Device Context (VDC) Settings
- Validate a Cisco Nexus 2000 Series Fabric Extender Configuration
- Validate a Cisco Nexus 1000V Series Switch Configuration

Module 3: Cisco Data Center Storage Networking

Lessons

- Comparing Storage Connectivity Options in the Data Center
- Fibre Channel Storage Networking
- Verifying Fibre Channel Communications on Cisco MDS 9000 Series Multi-layer Switches

Labs

- Validate a Cisco MDS 9100 Series Multilayer Fabric Switch License

Module 4: Cisco Data Center Unified Fabric

Lessons

- Data Center Bridging (DCB)
- Connectivity Options for Fibre Channel over Ethernet (FCoE) on the Cisco Nexus 5000 Series Switch
- Enhanced FCoE Scalability with Cisco Nexus 2232 10GE Fabric Extenders

Module 5: Cisco UCS

Lessons

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