

Cisco® Introducing Cisco Data Center Technologies DCICT v6.2

Course Overview

This is a 5-day class

The Introducing Cisco Data Center Technologies (DCICT) course is a five-day instructor-led training (ILT) program that introduces students to Cisco technologies and products that are deployed in the data center: network virtualization, network technologies, unified computing, automation and orchestration, and the Cisco Application-Centric Infrastructure (Cisco ACI). The introductory level of knowledge that is provided in these courses is targeted for individuals who can perform basic configuration tasks. The hands-on lab exercises focus on configuring features on Cisco Nexus Operating System (Cisco NX-OS), Cisco Unified Computing System (Cisco UCS), and Cisco UCS Director.

Who Should Attend

The primary audience for this course is as follows:

- Network Designer
- Server Administrator
- Network Engineer
- Systems Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Cisco Integrators/Partners

The secondary audience for this course is as follows:

- Network Administrator
- Storage Administrator
- Network Manager

The tertiary audience for this course is as follows:

- Program Manager
- Project Manager

Course Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe and configure Cisco UCS
- Describe and configure Cisco data center virtualization
- Describe and configure Cisco data center networking
- Describe and configure Cisco automation and orchestration
- Describe and verify Cisco ACI

Other Prerequisites

- Good understanding of networking protocols
- Good understanding of the VMware environment

Introduction to Data Centers Networking (DCICN) v6.0



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Course Outline

1 Cisco Data Center Network Virtualization

- Lesson 1-1: Describing Functional Planes of Cisco Nexus Switches
- Lesson 1-2: Describing Cisco Nexus Operating System VRF Contexts
- Lesson 1-3: Describing Virtual Device Contexts
- Lesson 1-4: Describing the Function of Overlays
- Lesson 1-5: Describing Virtualization
- Lesson 1-6: Describing Virtual Switches

2 Cisco Data Center Network Technologies

- Lesson 2-1: Describing Cisco Fabric Extender Connectivity
- Lesson 2-2: Describing Port Channels and Virtual Port Channels
- Lesson 2-3: Describing Cisco FabricPath
- Lesson 2-4: Describing Unified Port Feature of Cisco Nexus Switches
- Lesson 2-5: Describing Cisco Unified Fabric

3 Cisco Unified Computing System

- Lesson 3-1: Describing Data Center Server Connectivity
- Lesson 3-2: Describing Cisco IMC Supervisor
- Lesson 3-3: Describing Cisco UCS Manager Operations
- Lesson 3-4: Describing Role-Based Access Control
- Lesson 3-5: Describing Hardware Abstraction in Cisco UCS

4 Data Center Automation and Orchestration

- Lesson 4-1: Exploring the Utility of Application Programming Interfaces
- Lesson 4-2: Introducing Cloud Computing Basic Concepts
- Lesson 4-3: Describing Cloud Attributes and Service Models
- Lesson 4-4: Describing Cisco UCS Director
- Lesson 4-5: Describing VDCs, Tenants, and Policies
- Lesson 4-6: Describing Orchestration
- Lesson 4-7: Managing Catalogs and Templates
- Lesson 4-8: Reporting in Cisco UCS Director (CloudSense)

5 Cisco Application-Centric Infrastructure

- Lesson 5-1: Describing Cisco ACI
- Lesson 5-2: Describing Cisco ACI Fabric
- Lesson 5-3: Programming and Orchestrating Cisco ACI