

## COURSE OUTLINE

# Introducing Cisco Unified Computing System (DCIUCS) v1.0

**Duration:** 2 Days

**Prerequisites:**

To fully benefit from this course, you should have the following knowledge and skills:

- General knowledge of servers
- Routing and switching
- Storage area networking
- Server virtualization

These Cisco courses are recommended to help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®)
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)

**Course Description:**

The Introducing Cisco Unified Computing System (DCIUCS) v1.0 is an introductory course that shows you how to deploy, secure, operate, and maintain the Cisco Unified Computing system (Cisco UCS®) B-Series blade servers, Cisco UCS C-Series and S-Series rack servers, and Cisco HyperFlex™ product family for use in data centers. You will gain hands-on practice on basic Cisco UCS server configuration, performing backup and restore activities, and more.

**Course Objectives:**

- Describe Cisco UCS server hardware
- Describe Cisco UCS connectivity
- Describe the Cisco HyperFlex Data Platform, its data writing and reading processes, and data optimization
- Describe and configure Cisco UCS service profiles
- Describe and configure Cisco UCS service profile templates

- Describe and implement Internet Small Computer Systems Interface (iSCSI) on Cisco UCS
- Describe and implement Cisco UCS firmware updates
- Describe and implement Cisco UCS backups

**Intended Audience:**

- Server administrators
- Network engineers
- Systems engineers
- Consulting systems engineers
- Technical solutions architects
- Network administrators
- Storage administrators
- Network managers
- Sales engineers
- Cisco integrators and partners

**Course Outlines:**

**Describing Cisco UCS Server Hardware**

- Cisco UCS B-Series Blade Servers
- Cisco UCS C-Series Rack Servers
- Cisco UCS S-Series Rack Servers
- Cisco Virtual Interface Cards
- Hyperconvergence Overview
- Cisco HyperFlex HX-Series Servers

**Describing Cisco UCS Connectivity**

- Cisco UCS Fabric Interconnect
- Cisco UCS B-Series Connectivity
- Cisco UCS C-Series Connectivity
- Cisco UCS S-Series Connectivity
- Cisco HyperFlex Connectivity Architecture
- Cisco HyperFlex Edge Connectivity
- Cisco UCS Fabric Interconnect Ethernet End-Host Mode Compared to Switching Mode
- Cisco UCS Fabric Interconnect Uplink Pinning
- Cisco UCS C-Series Integration

**Describing the Cisco HyperFlex HX Data Platform**

- Cisco HyperFlex HX Data Platform Software
- Writing Data to Cisco HyperFlex HX Data Platform
- Reading Data from Cisco HyperFlex HX Data Platform

- Data Optimization in Cisco HyperFlex HX Data Platform

**Configuring Cisco UCS Service Profiles**

- Portability Issue with Nonabstracted Identities
- Cisco UCS Service Profile
- Identity Pools
- Server Pools
- IP Pools
- Configuring Cisco UCS Service Profile Templates
- Service Profile Templates

**Implementing iSCSI on Cisco UCS**

- iSCSI Addressing
- iSCSI Support in Cisco UCS

**Implementing Cisco UCS Firmware Updates**

- Update Cisco UCS C-Series Server Firmware
- Download Tasks for the Infrastructure Image
- Download Tasks for Cisco UCS B-Series Firmware Packages
- Best Practices for Updating Firmware in Cisco UCS Manager
- Firmware Upgrades Using Auto Install
- Capability Catalog Updates
- Host Firmware Packages
- Driver Updates for Operating Systems and Hypervisors

**Implementing Cisco UCS Backups**

- Compare Backup Options in Cisco UCS Manager
- Compare Two Import Types
- Policy Backup

**Lab outline**

- Explore Cisco UCS Manager GUI
- Configure Server and Uplink Ports
- Configure VLANs
- Configure Basic Identity Pools
- Configure a Cisco UCS Service Profile Using Pools
- Configure a Service Profile Template
- Configure an iSCSI Service Profile on Cisco UCS
- Perform Backup and Restore Activities

**REGISTER NOW!**

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