

Cisco Data Center Unified Computing Design

Course Code: **DCUCD**

Duration: 4 Days

Vendor

Cisco

Area of Technology

Data Center

Course Level

Course Description

The Designing Cisco Data Center Unified Computing (DCUCD) course enables engineers to choose and design scalable, reliable, and intelligent data center unified computing and virtualization solutions, based on the Cisco Unified Computing System (UCS) product portfolio as a centerpiece, integrated with contemporary virtualization solutions (for example, VMware vSphere, VMware View, Microsoft Hyper-V, Citrix XenServer, Citrix XenDesktop, Red Hat Kernel-Based Virtual Machine [KVM], and so on), operating systems (for example, Microsoft Windows and Linux), and applications (database, collaboration, and so on).

The course describes the data center unified computing and virtualization solutions based on the Cisco data center unified computing product portfolio, explains how to evaluate existing data center computing solutions and determine the requirements, and design Cisco data center unified computing solutions.

Target Audience

This course is designed for:

- Data center designers, data center administrators, and system engineers
- Data center engineers and managers

Objectives

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

- Evaluate the data center solution design and design process in regards to contemporary data center challenges, data center solution architecture, and components
- Assess the requirements and performance characteristics of the data center computing solutions
- Employ design steps to size the Cisco UCS solution for given data center requirements

- Evaluate and design Cisco UCS solution LAN, SAN, and virtual access layer connectivity
- Recognize and design Cisco UCS solution server deployment
- Identify the Cisco UCS solution for Unified Communications and Hadoop distributed computing applications with their specifics, and Cisco UCS options that fit the application needs

Prerequisites

To gain the prerequisite skills and knowledge, Cisco strongly recommends knowledge of the following courses:

- Introducing Cisco Data Center Networking (DCICN)
- Introducing Cisco Data Center Technologies (DCICT)
- Implementing Cisco Data Center Unified Fabric (DCUFI)
- Designing Cisco Data Center Unified Fabric (DCUFD)

Course Outline

Cisco Data Center Solution Architecture and Components

- Identifying Data Center Solutions
- Identifying Data Center Applications
- Identifying Cloud Computing
- Identifying Cisco Data Center Architecture and Components

Assess Data Center Computing Requirements

- Defining a Cisco Unified Computing System Solution Design
- Analyzing Computing Solutions Characteristics
- Employing Data Center Analysis Tools

Size Cisco Unified Computing Solutions

- Sizing the Cisco UCS C-Series Server Solution
- Sizing the Cisco UCS B-Series Server Solution
- Planning Unified Computing Deployment

Design Cisco Unified Computing Solutions

- Designing the Unified Computing Network
- Designing Unified Computing Storage
- Designing the Virtual Access Layer

Design Cisco Unified Computing Solutions Server Deployment

- Designing Cisco UCS Server Deployment
- Designing Unified Computing Management

Cisco Unified Computing Solution Applications

- Designing Cisco Unified Communications on Cisco UCS
- Designing Distributed Computing on Cisco UCS

Dates & Locations

Certifications

Cisco Data Center
Unified Computing
Design Specialist

Related Courses