

Configuring Cisco Unified Computing System (DCCUCS) v1.0

Course Duration: 24 Hours

Course code: DCCUCD v1.0

1. Course Overview

The Configuring Cisco Unified Computing System (DCCUCS) v1.0 course provides IT professionals with comprehensive knowledge and hands-on experience in configuring and managing Cisco UCS environments. The course covers the architecture, components, and management of UCS, enabling learners to deploy, configure, and maintain Cisco UCS systems efficiently. Through practical labs and real-world scenarios, participants gain skills required to streamline data center operations and improve system performance.

2. What You'll Learn?

- Understand the Cisco UCS architecture and components.
- Configure and manage UCS servers, chassis, and fabric interconnects.
- Implement service profiles and policies for efficient resource management.
- Manage storage, networking, and virtualization in a UCS environment.
- Troubleshoot and monitor UCS infrastructure for optimal performance.

3. Target Audience

- Network engineers and administrators seeking expertise in Cisco UCS.
- Data center professionals responsible for deploying and managing UCS systems.

- IT professionals preparing for Cisco UCS certification exams.
- System integrators and consultants working with enterprise-level data centers.

4. Pre-Requisites

- Basic knowledge of networking concepts (LAN, VLANs, IP addressing).
- Understanding of server hardware, storage, and virtualization fundamentals.
- Familiarity with Cisco networking devices and IOS is recommended.

5. Course Content

Module 1: Introduction to Cisco UCS

- UCS architecture and components
- UCS Manager overview
- Data center integration concepts

Module 2: UCS Installation and Initial Configuration

- Physical installation of UCS servers and chassis
- Configuring Fabric Interconnects
- Initial UCS Manager setup

Module 3: Service Profiles and Policies

- Creating and managing service profiles
- Configuring policies for BIOS, firmware, and network
- Cloning and deploying service profiles

Module 4: Networking in UCS

- Configuring VLANs, VSANs, and QoS

- Ethernet and Fibre Channel configurations
- UCS network best practices

Module 5: Storage and Virtualization

- Connecting UCS to storage arrays
- Configuring virtual interfaces and vNICs
- Integrating UCS with virtualization platforms

Module 6: Monitoring and Troubleshooting UCS

- UCS health monitoring and alerts
- Troubleshooting server, network, and storage issues
- Best practices for maintenance and upgrades

Module 7: Advanced UCS Features

- UCS clustering and high availability
- UCS scalability and performance optimization
- Automation and UCS API usage