

Implementing Cisco Data Center Unified Computing v6.0 (CS-DCUCI)

Modality: Virtual Classroom

Duration: 4 Days

CLC: 34 Units

About this course:

Executing Cisco Data Center Unified Computing (DCUCI) v6.0 is a five-day instructor-oriented course that is planned to aid students prepares for the Cisco CCNP® Data Center accreditation and for specified level data center roles. The emphasis of this skills-building course is on set up, securing, functioning, and sustaining the Cisco Unified Computing System (UCS) and UCS C-Series Frame Servers for usage in data centers.

The comprehensively hands-on Cisco Certification Training course covers all the aspects of organizing and handling Cisco UCS servers by means of unified/O networking for LAN and SAN connectivity, virtualizing server hardware identifiers to allow rapid retrieval of server working system images, regulating UCS distributions by means of UCS Central Software and Cisco Integrated Management Controller (IMC) Supervisor, constructing fault lenience, executing role based access control (RBAC), backing up and repairing system conformations, and using the checking and troubleshooting tools in Cisco UCS Manager and Cisco IMC. This course moreover aids the students in the preparation for Cisco: 300-175 DCUCI exam.

This course is portion of the subsequent Boot Camps:

CS-CCNP-DC v6.0 - Cisco Certified Network Professional (CCNP) Data Center Boot Camp v6.0.

A professional Cisco Certified Network Engineer earns an average of **\$77,484** per year.

Course Objectives:

- Incorporate Cisco UCS C-Series rack servers in unconnected mode. Boot from the local hard drive and mount the Fibre Channel SAN LUN for joint storage
- Set up Cisco R-Series rack insertions in the data center
- Set up mechanisms in the Cisco UCS C-Series rack server former to rack mounting
- Set up Cisco UCS C-Series stand servers in a Cisco R-Series stand
- Utilize the Cisco UCS Host Promotion Utility to upgrade or downgrade C-Series firmware to the precise version
- Running SNMP and syslog, and utilize C-Series monitoring gears
- Utilize the Cisco Integrated Management Controller to providing LAN and SAN connectivity

for the C-Series server

- Utilize the LSI MegaRAID web user interface to providing local hard drives into a RAID 5 array
- Set up VMware ESXi in the C-Series server confined hard drives
- Incorporate system management, preservation, and high-availability services for Cisco UCS B-Series
- Incorporate local and remote validation services to limit privileges and delegate administration authority in Cisco UCS Manager
- Grade the procedures for managing the firmware repository and promotion or downgrade Cisco UCS firmware mechanisms utilizing Cisco UCS Manager
- Incorporate backup and restore abilities in Cisco UCS Manager
- Incorporate syslog, Smart Call Home, and SPAN
- Sustain Cisco UCS in a high-availability arrangement
- Incorporate group 1 and group 2 connectivity
- Distinguish between physical links on the IOM and the terminated connections for administration and data plane over the I/O MUX and mid plane
- Set up and power up Cisco UCS B-Series hardware
- Incorporate LAN connectivity for Cisco UCS B-Series hardware
- Incorporate SAN connectivity for Cisco UCS B-Series hardware
- Running servers by leveraging returnable pools, policies, and patterns that permit for fast provisioning and reliability of policy
- Execute early Cisco UCS group setup and deliver management IP addresses for blade servers
- Running VLANs and fabric interrelate uplinks for server connectivity to the Layer 3 data center cloud
- Running VSANs and fabric intersect Fibre Channel uplinks for server connectivity to the data midpoint storage cloud
- Providing resource groups for servers, UUIDs, MAC addresses, WWNN, WWPN, and iSCSI
- Consolidate returnable server strategies in Cisco UCS Manager

- Providing service profiles with primary and updating patterns
- Incorporate virtualization features exclusive to Cisco UCS that advance performance and manageability
- Define Cisco VM-FEX and Cisco VM-FEX universal pass over technologies
- Running Cisco VM-FEX in Cisco UCS Manager and the VMware vCenter Server
- Providing Cisco VM-FEX universal pass over in Cisco UCS Manager and the VMware vCenter Server

Audience:

- Cisco Integrators and Associates
- Consulting Systems Engineer
- Network Designer
- Network Engineer
- Server Manager
- Systems Engineer
- Technical Solutions Designer

The subordinate audience for this course is as follows:

- Network Manager
- Network Executive
- Storage Manager

The tertiary audience for this course is as follows:

- Program Administrator
- Project Manager

Prerequisites:

- CCNA and DCUFI information and understanding until cutover to CCNA DC
- CCNA DC corresponding knowledge and understanding
- Server operating systems, hypervisor and virtualization knowledge
- Executing Cisco Storage Networking Solutions (ICSNS)
- Audience of the following Cisco learning offerings is endorsed to fully benefit from this course:
- Executing Cisco Data Non-uniform memory access (NUMA)
- (DCUFI)
- Implementing Cisco Storage Networking Solutions (ICSNS)

Recommended Prerequisite Courses:

- Employing Cisco Data Center Unified Fabric v5.x (DCUFI)
- Virtualization Technologies Outline

Course Outline: