

# Course Catalog

## Datacenter Computing Engineer (DCCE)

v 1.0

Cisco Technologies



Engineered Training



Developed by

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## Technology

Datacenter Fundamentals  
Datacenter Storage  
Datacenter Computing

## Duration

40 Hours

## Vendor

Cisco

## Audience

System/Presales Engineers  
Solution Architects  
Implementation Engineers  
Operation Engineers

## Delivery

Offsite Classroom  
Onsite Classroom

### Course Overview

The Datacenter Computing Engineer (DCCE) is a Cisco Technologies course that is developed for whom seeking understanding Cisco Unified Computing system along with generic foundational knowledge in Storage and Virtualization. The course validates the ability to design, configure, and operate Cisco Unified Computing System (UCS) including both Blades and Rack-mount Servers. Course is recommended for Computing Systems Specialists, Computing Systems Administrators and Computing Systems Designers.

This course is part of our Engineered Training Services that deliver a value-added courses which covers the concerned technologies from all aspects as well as other related fundamentals or technologies from zero level to the expert level incorporating case studies and real-life scenarios that benefit participants in their actual work environment..

### Course Related Certifications

This course is not aligned to any Cisco exam. The Course is custom developed for Cisco Datacenter Infrastructure Technologies and can be recommended for all who seeks to take:

- CCNA Datacenter Certification
- CCNP Datacenter Certification
- CCIE Datacenter Certification

### Course Prerequisites

There is no specific prerequisites for this course, although it's recommended to fulfil below points to better understand technologies and features:

- Recommended to have at least CCNA R&S and CCNP R&S certifications or equivalent knowledge.
- Recommended to have at least 1 – 3 years of networking experience.
- Recommended to have a laptop in Lab sessions.



### Course Added Values

- Delivering the optimum technical knowledge reflecting experience and real-life scenarios in the class.
- Understanding Best practice designs, configurations and recommendations.
- Consolidating Cisco Unified Computing System Blades and Rack-mounts in one course delivering complete vision of how UCS can be designed, configured and operated.
- Delivering the latest information and updates ensuring transferring up-to-date knowledge compared with regular certificate courses.

### Course Objectives

- Understanding of Datacenter Computing, Virtualization and Storage Fundamentals.
- Understanding Storage Networking along with configuring Storage Area Networks (SAN) on Cisco Multilayer Director Switches (MDS).
- Understanding Cisco Unified Computing System including architecture, key features and configurations.
- Ability to configure and operate Cisco UCS in Datacenters.
- Ability to size and design a Cisco UCS solution for given data center computing requirements.
- Understanding Different Architectures of Current Datacenters along with Computing Deployment Models.
- Qualifying Course Audience for Designing, Configuring and Operating medium-size and Enterprise Datacenters with Cisco Computing Technologies.

### Course Tools and Materials

- Animated Presentation Slides
- Labs Simulators or Real Gears
- Student Book – Printed Copy

### Course Outline

The course is divided into 3 Modules. Each Module is sub-divided into sections. Course blueprint is listed below:

#### **Module 1: Datacenter Fundamentals**

- Understanding Storage Fundamentals
- Understanding Computing Fundamentals
- Understanding Virtualization Fundamentals

#### **Module 2: Understanding Cisco Storage Networking**

- Understanding Storage Networking Protocols
- Exploring Cisco Storage Networking Portfolio (MDS and Nexus Switches)
- Configuring Cisco SAN Switches



### Module 3: Understanding Cisco Unified Computing System

- Understanding UCS Architecture
- Understanding UCS Components
- Understanding UCS Manager and its features.
- Configuring UCS LAN, SAN, Service Profiles, VM-FEX and System Parameters
- Understanding UCS C-Series, M-Series and E-Series Servers
- UCS Deployment Architectures
- UCS Designing and Sizing Guidelines

### Course Schedule

The course consists of 5 sessions, each session 8 Hours (Total of 40 hours). Session Details are listed below:

Session	Session Content	LAB Session
Session 1	Module 1: Datacenter Fundamentals	
Session 2	Module 1: Datacenter Fundamentals (Cont.) Module 2: Understanding Cisco Storage Networking	
Session 3	Module 2: Understanding Cisco Storage Networking (Cont.) Module 3: Understanding Cisco Unified Computing System	
Session 4	Module 3: Understanding Cisco Unified Computing System (Cont.)	
Session 5	Module 3: Understanding Cisco Unified Computing System (Cont.) LAB: UCS Manager Configuration	
		LAB

**\*Note:** Session hours can be minimized to 4 hours, with total of 10 session or as per client desire.