



Data Centre Unified Computing Design v3.0 (DCUCD)

Description

This 5-day hands-on course focuses on Cisco Unified Computing System (UCS) design and architecture. Starting with an overview of Cisco UCS key features, hardware and software components, and Unified Fabric architecture, you will learn to analyse the use cases and the quantitative benefits that Cisco UCS provides in terms of meeting customers' business, technical, and environmental objectives.

Topics covered in this course include performance characteristics, recommended reconnaissance and analysis tools, sizing, migration process, design success criteria, and ROI calculations.

This course also includes hands-on labs to allow you to become familiar with the UCS environment and key concepts.

Course Objectives

After completing this course, students should be able to:

- Explain Data Centre computing solutions design principles and challenges
- Describe the Cisco Data Centre 3.0 architecture
- Identify Cisco Unified Computing System components and architecture
- Describe the Cisco Data Centre Unified Computing solution advantages and services
- Describe the Cisco UCS server deployment and implementation model
- Identify key performance characteristics and reconnaissance and analysis tools
- Explain Cisco UCS solution design from the network, server, and storage perspective
- Identify design success criteria and ROI factors

Who Should Attend

This course provides in-depth design and architecture training for system engineers who need to design Cisco Unified Computing System solutions.

Recommended prerequisites

- Systems engineering experience with Intel x86 deployments
- Basic knowledge of LAN and SAN concepts

Length of Course

5 Days.

Maximum Class Size

12 Students

Class Locations
All APAC locations, subject to suitable venue.

Course Outline

- **Module 1:** Data Centre Computing Solutions
 - Data Centre Computing Solutions Objectives
 - Data Centre Computing Solutions Architecture
- **Module 2:** Cisco Data Center UCS Components
 - Cisco Data Centre 3.0 Architecture
 - Cisco Unified Computing System Components
 - Cisco Unified Computing System Connectivity
 - Unified Computing Networking
 - Unified Computing Storage
 - Lab 1: Exploring the UCS Hardware Platform
 - Lab 2: Unified Computing Networking
 - Lab 3: Unified Computing Storage
- **Module 3:** Cisco UCS Solution Benefits
 - Cisco Data Centre Unified Computing Solution Advantages
 - Understanding Policy Retention
 - Cisco Unified Computing Solution Services
 - **Module 4:** Cisco Unified Computing System Implementation
 - Cisco UCS Server Deployment Model
 - Unified Computing System Management
 - System Management Protocols
 - High Availability
 - Cisco UCS Server Deployment Options
 - Lab 4: Basic Server Deployment
 - Lab 5: Advanced Server Deployment
 - **Module 5:** Evaluating Existing Data Centre Computing Solutions
 - Performance Characteristics
 - Reconnaissance and Analysis Tools
 - **Module 6:** Designing Cisco Unified Computing Solutions
 - Environmental Aspects
 - UCS Design and Sizing
 - UCS Server Deployment
 - Sizing Virtual Machines
 - Unified Computing Network Design
 - Unified Computing Storage Design
 - Management Design Considerations
 - Migration Planning
 - Lab 6: UCS Server Deployment
 - Lab 7: Server Virtualization Deployment on UCS
 - **Module 7:** Evaluating Cisco Unified Computing Solutions
 - Designing Success Criteria
 - Evaluating ROI

Further Information

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