

# Cisco UCS and Intersight Boot Camp

Course ID: OSCP170718



## Course Description

This course is designed for virtualization or data center administrators looking to operate, support, or manage Cisco UCS infrastructure and also covers architecture, configuration, and operation of Cisco Intersight. The course serves the needs of engineers seeking to understand the capabilities of Cisco Intersight from a pre- and post-deployment perspective. Participants will learn how to configure and manage Cisco UCS virtualized server infrastructure as well as implement and operate Cisco Intersight through hands-on labs.

## Who Should Attend

- + System Administrators
- + UCS Administrators
- + Support Engineers
- + Virtualization Engineers

## Prerequisites

- + Understanding of server system design and architecture
- + Understanding of Cisco Enterprise Data Center architecture
- + Familiarity with Server Virtualization
- + Knowledge on Data Center Server and Network Administration

## Course Content (continues on next page)

### Module 1: Cisco Unified Computing System Overview

Data Center Trends

UCS Architecture Overview

UCS Hardware Overview

- + UCS Fabric Interconnects

- + UCS IOMs

- + UCS B-Series servers

- + UCS C-Series servers

- + UCS HX-Series Servers

- + Adapter Offerings

UCS Management Overview

- + UCS Manager

- + Understanding UCSM HA

- + UCSM C-Series Management

UCS Initial Configuration

# Cisco UCS and Intersight Boot Camp

(2 Days)

## Course Content (continues on next page)

### Module 2: Cisco UCS Manager Pool, Policies and Profiles

Hardware State Abstraction

Organizations in UCS

Pools Overview

- + UUID Pools
- + MAC Pools
- + WWNN/WWPN Pools
- + Server Pools

Policies Overview

Understanding Templates

- + vNIC Templates
- + vHBA Templates
- + Service Profile Templates
- + Service Profiles

Service Profile Templates and Expert Service Profile Wizards

Service Profile Association

Changes to a Service Profile that Trigger a Cisco UCS Server Reboot

Service Profile to a New Server Blade in the Event of Hardware Failure

KVM and Virtual Media

Supported Operating Systems and Boot Options

### Module 3: Cisco UCS Networking

Lesson 1 - Cisco UCS LAN Connectivity

- + UCS Manager Networking Features
- + Server and uplink Ethernet ports in Cisco UCS
- + Ethernet Port Channels on the UCS Fabric Interconnect
- + VLAN Configuration
- + End-Host and Switching Modes

### Module 3: Cisco UCS Networking (cont'd)

Lesson - 2 Cisco UCS SAN Connectivity

- + UCS Manager Storage Features
- + FC Ports on Cisco UCS Fabric Interconnects
- + VSANs in the Cisco UCS Manager
- + N Port Identifier Virtualization (NPiV) and UCS FC
- + End-Host Mode
- + Fiber Channel Switching Mode
- + Multipath IO

### Module 4: Cisco UCS Firmware Management

Cisco UCS Software Packages

Upgrading Cisco UCS B-Series Firmware

Direct Firmware Upgrades of Cisco IMC, IOM, and Mezzanine Adapters

Firmware Updates Using a Service Profile

Hardware Capability Catalogs

Supported Operating Systems and Boot Options

### Module 5: Cisco UCS Manager Backup and Restore Operations

Supported Backup Types, Functions and Import and Disaster Recovery Restore Operations

Backup Creation, Execution, and Scheduling

Configuring an Import Job to Restore the AAA User Database

Configuring Cisco UCS Fabric Interconnects for a Disaster Recovery Restore Operation

# Cisco UCS and Intersight Boot Camp

(2 Days)

## Course Content

### Module 6: Cisco UCS Manager Logging and Monitoring

Fault Management System and Fault Severity Levels  
Tracking Administrative Changes in the Cisco UCS  
Cisco UCS Manager Audit Log  
Cisco UCS Manager Operations Subject to FSM  
Validation  
Logging Options  
System Event Log and Log Policies  
Smart Call Home Feature  
Logs, Events, and Faults

### Module 7: Cisco UCS Management Overview

Cisco UCS Manager  
Cisco UCS Central  
Cisco IMC Supervisor  
Cisco HyperFlex  
Cisco UCS Director  
Cisco UCS runs on Intel XEON Processor  
UCS Management Summarization  
Introducing Cisco Intersight

**Demo: UCS Director 6.5**

### Module 8: What is Cisco Intersight

Cisco Intersight Overview  
Why Cisco Intersight  
Cisco Intersight Licensing  
Cisco Intersight Key Components

**Demo: Cisco Intersight**

### Module 9: Cisco Intersight–Setup and User Management

Prerequisites  
How to Access Cisco Intersight  
User Addition and RBAC  
Cisco Intersight Security  
Cisco Intersight GUI Walkthrough

### Module 10: Cisco Intersight-Administration and Operations

Device Integration to Cisco Intersight  
License Activation  
Unified Administration  
Unified Operations  
Server Policies and Profiles – Cisco Intersight Essentials

### Module 11: Cisco Intersight API

Cisco UCS Management Ecosystem  
Cisco Intersight Extensible Architecture

### Labs: UCS

Lab 1: Exploring a UCS Manager Domain  
Lab 2: Creating UCS Manager Global Pools and Policies  
Lab 3: Configuring Network Objects  
Lab 4: Configuring Logical Storage Objects  
Lab 5: UCS Manager Service Profile Operations  
Lab 6: Role-Based Access Control, Security, and Active Directory–Based Authentication on Cisco UCS

### Labs: Intersight

Lab 7: Accessing Cisco Intersight Portal  
Lab 8: Introduction to Cisco Intersight GUI  
Lab 9: User Management -RBAC  
Lab 10: Claim/ Add and Unclaim/ Delete Devices in Cisco Intersight  
Lab 11: Manage UCSM  
Lab 12: Managing Cisco UCS C-Series Server (M5)



**To register for an ePlus cloud training course, contact us today.**

Call: 888.482.1122  
Email: [CloudServices@eplus.com](mailto:CloudServices@eplus.com)  
Web: [www.eplus.com/cloud](http://www.eplus.com/cloud)