

## Course Outline

### Designing and Deploying Cisco UCS Director with ACI Course UCSDACI: 5 days Instructor Led

*All Cisco courses are delivered by a Cisco Authorized Platinum Learning Partner*

#### About this course

Designing and Deploying Cisco UCS Director with ACI (UCSDACI) v6.6 is a 4-day course that shows you how to use Cisco UCS® Director software to manage physical and virtual infrastructure elements, including Cisco Application Centric Infrastructure (Cisco ACI™). You will learn to use orchestration and automation functions of Cisco UCS Director to effectively manage infrastructure and automate IT processes. The course offers hands-on experience installing and configuring Cisco UCS Director software. You will also learn about features such as bare-metal provisioning; compute, network, and storage management; orchestration, including Application Policy Infrastructure Controller (APIC); Cisco UCS Director custom tasks, and more.

#### Audience profile

- Data Center Architects
- Cloud Infrastructure Architects
- Network Engineers
- System Administrators
- Storage Administrators
- Engineers Requiring Advanced Configuration Skills
- Cisco Integrators and Partners

#### At course completion

After completing this course, students will be able to:

- Data center challenges and cloud solutions
- Cisco UCS Director architecture
- Cisco UCS Director setup and configuration
- Cisco ACI
- Multitenancy in FlexPod Cisco ACI infrastructure
- Resource groups and service offerings
- Tenant onboarding
- Self-service provisioning
- Application containers

#### Course Outline

Module 1: Introducing Cisco UCS Director

- Understanding Data Center Challenges
- Understanding the Benefits of Cisco UCS Director

Module 2: Understanding Cisco UCS Director Components

- Explaining Cisco UCS Director Architecture
- Explaining Bare-Metal Agent

## Course Outline

### Module 3: Introducing Cisco Application Centric Infrastructure

- Understanding Cisco ACI Overview
- Understanding Cisco ACI Terms and Constructs

### Module 4: Understanding Cisco UCS Director Infrastructure Management

- Understanding Cisco UCS Director Deployment

### Module 5: Introducing Role-Based Access Control

- Explaining User Groups/Roles/Users

### Module 6: Introducing Orchestration

- Understanding Orchestration

### Module 7: Introducing Cisco UCS Director ACI

- Explaining Cisco UCS Director with ACI Solution

### Module 8: Understanding Multitenancy with Cisco UCS Director ACI

- Explaining Multitenancy with Cisco UCS Director ACI
- Understanding Resource Groups and Service Offerings

### Module 9: Introducing Advanced Tenant Onboarding

- Onboarding a Tenant
- Tagging Resources

### Module 10: Introducing Application Containers

- Understanding Application Profiles
- Understanding Service Container Catalog

### Module 11: Understanding Deployment Through Self-Service Portal

- Understanding Self-Service Provisioning Portal
- Understanding Service Request

### Module 12: Understanding Virtual Data Center

- Understanding Policies
- Understanding vDC and Groups Use Case

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### Lab Outline:

- Configure Cisco UCS Director
- Cisco UCS Director Discovery
- Cisco UCS Director User Interface Familiarization
- APIC Orchestration Using Workflows
- Import Advance APIC Workflow
- Create Environmental Variables
- Create Resource Groups
- Create Service Offering and Tenant Profiles
- Onboard a Tenant in Cisco ACI Environment
- Create Application Container
- Deploy Multitier Application Container
- Self-Service Portal – End User Experience
- Service Design
- Catalogs
- Self-Service Portal – Standard VM Provisioning (End User)
- Advance Workflow with Dynamic Input Filter