# <u>Implementing Cisco Application Centric Infrastructure (DCACI) v1.0 - On Demand</u>

**Modality: On Demand** 

**Duration: 40 Hours** 

CLC: 15 Units

#### **Course Information**

#### **About this course:**

This course will teach you how to deploy and manage the Cisco Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. You will get the knowledge and skills to connect the Cisco ACI fabric to external networks and services, configure and manage Cisco Nexus 9000 Series Switches in ACI mode, along with providing the fundamentals of Virtual Machine Manager (VMM) integration. We will take you through hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more.

Upon completion of this course you will be fully prepared to take the Implementing Cisco Application Centric Infrastructure (300-620 DCACI) exam, passing which will lead to CCNP Data Center and Cisco Certified Specialist – Data Center ACI Implementation certifications.

## **Course Objective:**

After taking this course, you should be able to:

- Describe Cisco ACI basic packet forwarding
- Describe external network connectivity
- Describe Cisco ACI Fabric Infrastructure and basic Cisco ACI concepts
- Describe Cisco ACI policy model logical constructs
- Describe Layer 4 to Layer 7 integrations
- Explain Cisco ACI management features
- Describe VMM Integration

#### Audience:

- Technical solutions architects
- Field engineers
- Server administrators
- Network designers, administrators, engineers, and managers
- Systems engineers
- Data Center engineers
- Consulting systems engineers
- Storage administrators
- · Cisco integrators and partners

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### **Prerequisite:**

Having the following knowledge and skills will make your learning journey easy:

- Understanding of Cisco data center architecture
- Familiarity with virtualization fundamentals
- Understanding of networking protocols, routing, and switching
- Familiarity with Cisco Ethernet switching products

These are the recommended Cisco learning offerings that may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA) v1.0
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0
- Introducing Cisco Data Center Networking (DCICN) v6.2
- Introducing Cisco Data Center Technologies (DCICT) v6.2
- Interconnecting Cisco Networking Devices: Accelerated (CCNAX) or Interconnecting Cisco Networking Devices Part 1 (ICND1) and Interconnecting Cisco Networking Devices Part 2 (ICND2)

#### **Course Outline:**

#### **Introducing Cisco ACI Fabric Infrastructure and Basic Concepts**

What Is Cisco ACI?
Cisco ACI Topology and Hardware
Cisco ACI Object Model
Faults, Event Record, and Audit Log
Cisco ACI Fabric Discovery
Cisco ACI Access Policies

#### **Describing Cisco ACI Policy Model Logical Constructs**

Cisco ACI Logical Constructs
Tenant
Virtual Routing and Forwarding
Bridge Domain
Endpoint Group
Application Profile
Tenant Components Review
Adding Bare-Metal Servers to Endpoint Groups
Contracts

#### **Describing Cisco ACI Basic Packet Forwarding**

Endpoint Learning
Basic Bridge Domain Configuration \*\*\*\*

#### **Introducing External Network Connectivity**

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Cisco ACI External Connectivity Options External Layer 2 Network Connectivity External Layer 3 Network Connectivity

#### **Introducing VMM Integration**

VMware vCenter VDS Integration Resolution Immediacy in VMM Alternative VMM Integrations

### **Describing Layer 4 to Layer 7 Integrations**

Service Appliance Insertion Without ACI L4-L7 Service Graph Service Appliance Insertion via ACI L4-L7 Service Graph Service Graph Configuration Workflow Service Graph PBR Introduction

#### **Explaining Cisco ACI Management**

Out-of-Band Management
In-Band Management
Syslog
Simple Network Management Protocol
Configuration Backup
Authentication, Authorization, and Accounting
Role-Based Access Control
Cisco ACI Upgrade
Collect Tech Support

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