

## Implementing Cisco Application Centric Infrastructure

**Duration: 5 Days    Course Code: DCACI    Version: 1.2    Delivery Method: Class Connect**

### Overview:

The Implementing Cisco Application Centric Infrastructure course shows you how to deploy and manage the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. You will learn how to configure and manage Cisco Nexus 9000 Series Switches in ACI mode, how to connect the Cisco ACI fabric to external networks and services, and fundamentals of Virtual Machine Manager (VMM) integration. You will gain hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more. This course is based on ACI Software v5.2 release.

This course helps you prepare to take the exam, **Implementing Cisco Application Centric Infrastructure** (300-620 DCACI), which leads to **CCNP® Data Center** and **Cisco Certified Specialist – Data Center ACI Implementation** certifications.

**This course earns you 40 Continuing Education (CE) credits towards recertification .**

Class-Connect™ HD

This is live hands-on interactive learning where you can attend a course from different training centres. This premium experience uses HD quality audio and video that connects the classrooms over a high capacity managed network to ensure a 'real time' experience. The instructor will be presenting from one location and students attending from other centres are able to interact with the instructor and other delegates using video and voice conferencing.

### Target Audience:

Individuals who need to understand how to configure and manage a data center network environment with the Cisco Nexus 9000 Switch operating in ACI Mode.

### Objectives:

- **After completing this course, you should be able to:**
- Describe external network connectivity
- Describe Cisco ACI Fabric Infrastructure and basic Cisco ACI concepts
- Describe VMM Integration
- Describe Cisco ACI policy model logical constructs
- Describe Layer 4 to Layer 7 integrations
- Describe Cisco ACI basic packet forwarding
- Explain Cisco ACI management features

### Prerequisites:

**Attendees should meet the following prerequisites:**

- Understanding of networking protocols, routing, and switching
- Familiarity with Cisco Ethernet switching products
- Understanding of Cisco data center architecture
- Familiarity with virtualization fundamentals
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations

### Testing and Certification

**Recommended as preparation for the following exams:**

- **300-620 DCACI** - Implementing Cisco Application Centric Infrastructure

## Follow-on-Courses:

*The following courses are recommended for further study:*

- DCACIA - Implementing Cisco Application Centric Infrastructure - Advanced
- DCACIO - Cisco Application Centric Infrastructure Operations and Troubleshooting

## Content:

### 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
- Contracts

### Describing Cisco ACI Basic Packet Forwarding

- Endpoint Learning
- Basic Bridge Domain Configuration Knob

### Introducing External Network Connectivity

- 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
- Fabric-Wide System Settings
- Syslog
- Simple Network Management Protocol
- Configuration Backup
- Authentication, Authorization, and Accounting
- Role-Based Access Control
- Cisco ACI Upgrade
- Collect Tech Support

### Labs

- Validate Fabric Discovery
- Configure Network Time Protocol (NTP)
- Create Access Policies and Virtual Port Channel (vPC)
- Enable Layer 2 Connectivity in the Same Endpoint Group (EPG)
- Enable Inter-EPG Layer 2 Connectivity
- Enable Inter-EPG Layer 3 Connectivity
- Compare Traffic Forwarding Methods in a Bridge Domain
- Configure External Layer 2 (L2Out) Connection
- Configure External Layer 3 (L3Out) Connection
- Integrate Cisco Application Policy Infrastructure Controller (APIC) With VMware vCenter Using VMware Distributed Virtual Switch (DVS)

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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