

## Course Outline

### Implementing Cisco Application Centric Infrastructure - Advanced v1.1 Course DCACIA: 5 days Instructor Led

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#### About this course

The Implementing Cisco Application Centric Infrastructure—Advanced (DCACIA) v1.1 course shows you how to integrate the capabilities of 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 providing enhanced management and policy framework, along with the protocols used in the underlying fabric. The course also covers how to use Cisco ACI as a policy-driven solution that integrates software and hardware, and how to implement Cisco ACI Multi-Pod and Nexus Dashboard Orchestrator (NDO) deployments. You will gain hands-on practice implementing advanced ACI capabilities such as Rogue Endpoint Feature, Transit Routing, VRF Route Leaking, Contracts and Zoning Rules, Policy Based Redirect to Layer 4–7 Service Node, Multi-Pod Fabric and Cisco ACI® Nexus Dashboard Orchestrator.

#### Audience profile

- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Data center engineers
- Consulting systems engineers
- Technical solutions architects
- Field engineers
- Server administrators
- Network managers
- Storage administrators
- Cisco integrators and partners
- Project managers
- Program managers

#### At course completion

After completing this course, students will be able to:

- Explain Cisco ACI advanced fabric packet forwarding
- Explain advanced ACI policy and tenant configuration
- Describe Cisco ACI Multi-Pod deployment
- Explain the details and consideration of implementing and integrating traditional network with Cisco ACI
- Describe Cisco ACI Service Graph Policy-Based Redirect (PBR)
- Describe Cisco ACI Nexus Dashboard Orchestrator deployment

#### Course Outline

Module 1: Cisco ACI Advanced Packet Forwarding

- Packet Forwarding Between Leaf Switches
- Endpoint Learning

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### Module 2: Using Advanced Cisco ACI Policy and Tenant Configuration

- Layer 3 Outside Transit Routing
- Using Tenant Common for Shared Services

### Module 3: Implementing Traditional Network in Cisco ACI

- Integrating Switched Network with Cisco ACI
- Migrating Existing Switched Network to Cisco ACI

### Module 4: Cisco ACI Service Graph PBR

- Service Graph PBR Overview
- PBR End-to-End Packet Flow

### Module 5: Cisco ACI Multi-Pod Deployment

- Cisco ACI Multi-Pod Overview
- Inter-Pod Network Overview

### Module 6: Cisco Nexus Dashboard Deployment

- Cisco Nexus Dashboard Overview
- Cisco Nexus Dashboard Orchestrator

### Lab Outline

- Examine Local and Remote Endpoint Learning
- Verify Bounce Entries
- Validate IP Learning
- Mitigate IP and MAC Flapping with the Rogue Endpoint Feature
- Enable Transit Routing
- Implement VRF Route Leaking
- Configure VRF Route Leaking with L3Out
- Examine Contracts and Zoning Rules
- Configure Policy-Based Redirect to Layer 4–7 Service Node
- Deploy Multi-Pod Fabric
- Provision Policies with Cisco ACI Multi-Site Orchestrator