

# Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO) v5.2

## What you'll learn in this course

The **Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO) v5.2** course shows you how to manage, monitor, and troubleshoot Cisco® Nexus® 9000 Series Switches in Application-Centric Infrastructure (ACI) mode. Through expert instruction and hands-on practice, you will learn about operational tools, best practices, caveats, and practice troubleshooting common issues on a live fabric. Based on lessons learned in wide range of production deployments, this course gives you the real-world knowledge and skills to boost operational efficiencies in your own deployment.

## Course duration

- Instructor-led training: 3 days in the classroom
- Virtual instructor-led training: 3 days of web-based classes
- E-learning: Equivalent of 2 days of instruction and hands-on lab practice

## How you'll benefit

This course will help you:

- Quickly ramp up on Cisco ACI® operational knowledge, skills, and best practices honed from real-world production deployments
- Gain hands-on troubleshooting techniques
- Optimize the benefits of using Cisco ACI, such as streamlined operations

## Technology areas

- Data center

## Who should enroll

IT professionals who operate and support a Cisco ACI data center network, including:

- Data center engineers
- Field engineers
- Network engineers
- Systems engineers
- Cisco integrators/partners
- Consulting systems engineer
- Technical solutions architect
- Service administrator

- Network manager

## How to enroll

### Instructor-led training

- Find a class at the [Cisco Learning Locator](#).
- Arrange training at your location through [Cisco Private Group Training](#).

### E-learning

- To buy a single e-learning license, visit the [Cisco Learning Network Store](#).
- For more than one license, or a learning library subscription, contact us at [learning-bdm@cisco.com](mailto:learning-bdm@cisco.com).

## Course details

### Objectives

After taking this course, you should be able to:

- Describe the Cisco ACI built-in tools for operating and monitoring the fabric.
- Describe the complex challenges related to monitoring and Cisco tools that address them: Cisco Nexus Dashboard and Cisco Nexus Dashboard Insights.
- Describe fabric installation upgrade, backup, restore, and best practices for Cisco NX-OS-to-ACI migration and Cisco ACI management access.
- Describe the tools and best practices for monitoring ACI fabric.
- Describe best practices for Cisco ACI naming conventions, Day-0 configuration, VMM integration, and Cisco ACI migrations.

### Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- Understanding of ACI architecture and concepts need to get an ACI fabric into production
- Familiarity with data center infrastructure operations
- Familiarity with management of Cisco data center switches
- Data center operations

The following course will provide you with the required ACI skills:

- **Implementing Cisco Application-Centric Infrastructure (DCACI)**
- **Implementing and Administering Cisco Solution (CCNA)**
- **Understanding Cisco Data Center Foundations (DCFNDU)**

### Outline

- Describing Cisco ACI Day-0 to Day-2 Operations
- Describing Day-2 Operational Tools
- Describing Cisco ACI Configuration Management
- Describing Cisco ACI Monitoring

## Course overview

- Cisco ACI Best Practices

### Lab outline

- Safeguard ACI Operation Using Network Assurance Engine
- Configure SNMP and Perform Export/Import Operations
- Monitor Cisco ACI and Configure Syslog
- Explore the Management Information Tree
- Configure SPAN


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Course version: DCACIO\_5-2 C22-741646-04 11/21