



# Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO)

## COURSE OVERVIEW

The Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO) v4.2 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 a wide range of production deployments, this course gives you real-world knowledge and skills to boost operational efficiencies in your own deployment.

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

## WHO WILL BENEFIT FROM THIS COURSE?

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

- Data center engineers
- Field engineers
- Network engineers
- Systems engineers

## PREREQUISITES

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

- Completion of Cisco ACI Field Engineer Essentials course
- Familiarity with data center infrastructure operations
- Familiarity with the management of Cisco data center switches
- Understanding of basic network troubleshooting and basic programming
- System or network administration (Linux or Windows)
- Data center operations

## COURSE OBJECTIVES

After taking this course, you should be able to:

- Operationalize and troubleshoot the ACI fabric
- Understand Cisco Application Policy Infrastructure Controller (APIC) and its monitoring, management, and troubleshooting capabilities
- Avoid common mistakes and recognize common symptoms



## COURSE OUTLINE

- Cisco ACI Overview
- Cisco ACI Topology and Hardware
- Cisco ACI Fabric Discovery and Initialization
- Cisco ACI Access Policies
- Cisco ACI Configuration Review
- Creating a Base Configuration
- Cisco ACI Configuration Management
- Installation Checklist
- Cisco Hardware Installation and Fabric Discovery
- Cisco ACI Firmware Upgrades
- Cisco Smart Licensing
- Import / Export
- Configuration Snapshots and Rollbacks
- Configuration Zones
- Cisco ACI Fabric Rebuild or Recovery
- Converting Cisco NX-OS mode to ACI mode
- Cisco APIC Management Access Protocols
- General Recommended Practices from the Technical Assistance Center TAC
- Cisco ACI-OT Monitoring
- Cisco ACI Operation Tools
- Cisco ACI Syslog Configuration
- Viewing Events and Logs
- Troubleshooting Cisco ACI
- Health Scores
- Troubleshooting Cisco APIC
- Faults and Audit Logs in ACI

### Lab outline

- Connect to Remote Lab Environment
- Create a Tenant
- Configure vCenter Integration
- Configure Layer 2 Physical Domain
- Connect Layer 3 Outside Using Open Shortest Path First (OSPF)
- Configure Syslog
- Configure Simple Network Management Protocol (SNMP)
- Configure ELAM Assistant
- Employ Cisco Network Insights
- Configure Contract Deny Logs and Tenant Atomic Counters
- Use Visore to Explore Tenant
- Troubleshoot Using CLI
- Configure Tenant SPAN
- Troubleshooting Challenge



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