# Configuring Cisco Nexus 9000 Series Switches in ACI Mode (DCAC9K)

## Duration: 3 days

# Who should attend?

1. Data Center Engineers
2. Data Center Architects
3. Network Designers
4. Network Administrators
5. Network Engineers
6. Virtualization Engineers
7. Cloud Infrastructure Engineers
8. Systems Engineers
9. Consulting Systems Engineers
10. Technical Solutions Architects
11. Field Engineers
12. Cisco Integrators and Partners

# Prerequisites

It is recommended, but not required, to have the following skills and knowledge before attending this course:

1. Familiarity with Cisco Ethernet switching products
2. Understanding of Cisco data center architecture
3. Familiarity with VMware virtualization fundamentals
4. Understanding of networking protocols, routing, and switching

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

1. **Interconnecting Cisco Network Devices Part 1** (ICND1)
2. **Interconnecting Cisco Network Devices Part 2** (ICND2)
3. **Implementing Cisco IP Routing v2.0** (ROUTE)
4. **Implementing Cisco IP Switched Networks v2.0** (SWITCH)
5. **Introducing Cisco Data Center Networking** (DCICN)
6. **Introducing Cisco Data Center Technologies** (DCICT)

# Course Objectives

Upon completing this course, you will be able to meet these objectives:

1. Install the Cisco Nexus 9000 Series Switches in Cisco ACI mode
2. Deploy the Cisco ACI fabric

3. Configure the Cisco ACI controller (Application Policy Infrastructure Controller [APIC])
4. Describe the Cisco Nexus 9000 Series Switch hardware
5. Understand the differences between Cisco ACI code versions
6. Configure Cisco ACI Layer 4 through Layer 7 service integration
7. Integrate virtual and physical workloads in a multi-hypervisor fabric
8. Deploy the security and management capabilities of the Cisco ACI network
9. Connect Cisco ACI to outside networks
10. Extend and interconnect the Cisco ACI fabric
11. Migrate from a traditional data center to Cisco ACI with a common, policy-enforced approach
12. Manage Cisco ACI
13. Program and orchestrate the Cisco ACI network
14. Troubleshoot Cisco ACI

# Course Content

The Configuring Cisco Nexus 9000 Series Switches in ACI Mode (DCAC9K) v3.0 course is designed for senior engineers and IT professionals who implement and manage Cisco Nexus 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI) mode. This course covers the key components of the Cisco ACI architecture, along with the knowledge and hands-on skills you need to configure, manage, and troubleshoot Cisco Nexus 9000 Series Switches in Cisco ACI mode and connect the Cisco ACI fabric to external networks and services. You will learn how to deploy Cisco ACI security, networking, virtualization, automation, and programmability features on the Cisco Nexus 9000 Series Switches and migrate to a policy-enforced data center.