Designing Cisco Application Centric Infrastructure

Category: Networking & Security | **Vendor:** Cisco

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Designing Cisco Application Centric Infrastructure (DCACID) v1.0 is a 5-day product training course that provides you with the knowledge and skills to understand and utilize a programmable fabric design built on Cisco Nexus® 9000 Series Switches in Application-Centric Infrastructure (ACI) mode. This course is a deep dive into Cisco ACI design, covering design considerations and best practices, so you can build solid ACI solutions and avoid common mistakes that can impact the network infrastructure. With a focus on various design use cases, this course provides information that can help you practice design decisions, validate your designs, and apply best practices while using Cisco ACI in your multiservice or cloud data centers.

How You'll Benefit

This course will help you:

- Develop an understanding of programmable fabric designs built on Cisco Nexus 9000 Series Switches in ACI mode
- Build the knowledge and skills necessary to build solid ACI solutions and avoid common mistakes

About This Course

The Designing Cisco Application Centric Infrastructure (DCACID) v1.0 is a 5-day product training course that provides you with the knowledge and skills to understand and utilize a programmable fabric design built on Cisco Nexus® 9000 Series Switches in Application-Centric Infrastructure (ACI) mode. This course is a deep dive into Cisco ACI design, covering design considerations and best practices, so you can build solid ACI solutions and avoid common mistakes that can impact the network infrastructure. With a focus on various design use cases, this course provides information that can help you practice design decisions, validate your designs, and apply best practices while using Cisco ACI in your multiservice or cloud data centers.

How You'll Benefit

This course will help you:

- Develop an understanding of programmable fabric designs built on Cisco Nexus 9000 Series Switches in ACI mode
- Build the knowledge and skills necessary to build solid ACI solutions and avoid common mistakes

Who Should Attend

This course is designed for the following roles:

- Network designer
- Network engineer
- Systems engineer
- Data center engineer
- Consulting systems engineer
- Technical solutions architect
- Cisco integrators/partners

Prerequisites & Entry Requirements

General Prerequisites:

Before taking this course, you should have:

- Familiarity with Cisco Application Centric Infrastructure implementations
- Familiarity with data center infrastructure operations
- Familiarity with the management of Cisco data center switches
- Familiarity with virtualization fundamentals

These recommended Cisco learning offerings may help students meet these prerequisites:

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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After taking this course, you should be able to:

- Design Cisco ACI access policies according to best practices
- Use fabric system settings
- Design Cisco ACI logical components
- Design the migration of IP and logical components from an existing data center to Cisco ACI
- Design Cisco ACI physical structure
- Migrate existing data center connectivity and physical components from an existing environment to Cisco ACI
- Design Cisco ACI external Layer 3 connectivity and Cisco ACI Layer 4–7 service insertion, including PBR-based service redirection
- Design the L4-L7 service insertion in single-pod Cisco ACI, by evaluating the available options and choosing the optimal connectivity flow
- Design L4-L7 service insertion in Cisco ACI Multi-Pod
- Design a transit routing solution
- Design service sharing using vzAny
- Build a migration plan for Layer 2 and Layer 3 connectivity, including L3Outs and contracts
- Migrate vSphere compute environment to Cisco ACI
- Design QoS for interpod and intersite networks
- Design the DHCP Relay feature, SPAN feature, Port Tracking feature, Import/Export policies, and Snapshot/Rollback feature

Detailed Course Outline

- Designing Access Policies
- Using Fabric System Settings
- Designing Logical Components
- Use Case: Migration of IP and Logical Structure
- Designing Physical Structure

- Use Case: Migration of Connectivity and Physical Components
- Designing L3Outs and Service Insertion
- Use Case: Service Insertion in Single Pod
- Use Case: Service Insertion in Cisco ACI Multi-Pod
- Use Case: L3Out Transit Routing
- Use Case: Shared Services vzAny and Endpoint Security Groups
- Use Case: Migration of Layer 2 and Layer 3 Connectivity
- Use Case: VMware Data Center Migration to Cisco ACI
- Use Case: IPN and ISN QoS
- Use Case: DHCP Relay and SPAN

Skills You Will Learn:

After taking this course, you should be able to:

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- Use fabric system settings
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Frequently Asked Questions

Q: What delivery options are available for Designing Cisco Application Centric Infrastructure?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Designing Cisco Application Centric Infrastructure course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Designing Cisco Application Centric Infrastructure training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Designing Cisco Application Centric Infrastructure?

Yes, we provide corporate training, dedicated training, and closed classes for Designing Cisco Application Centric Infrastructure. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Designing Cisco Application Centric Infrastructure, ACI, DCACID

Q: Why choose Nexus Human for Designing Cisco Application Centric Infrastructure?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Designing Cisco Application Centric Infrastructure training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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