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Course Name

Cisco ACI Design

Sector Name

Information Technology

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Cisco ACI Design

Course Introduction

Cisco Application Centric Infrastructure (ACI) is a software-defined networking (SDN) solution that simplifies data center operations through policy-based automation, centralized management, and application-driven networking.

This course provides participants with the knowledge and skills required to design scalable, secure, and highly available Cisco ACI environments that align with business and application requirements. Participants will learn ACI architecture, design methodologies, integration strategies, security considerations, and best practices for enterprise and data center deployments.

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Target Audience

- ✓ Network Architects
- ✓ Network Design Engineers
- ✓ Data Center Engineers
- ✓ Network Consultants
- ✓ Systems Engineers
- ✓ Infrastructure Architects
- ✓ Technical Managers responsible for data center transformation
- ✓ IT Professionals involved in Cisco ACI deployments

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Learning Objectives

- ✓ Understand Cisco ACI architecture and core components.
- ✓ Design scalable and resilient ACI fabrics.
- ✓ Develop tenant, VRF, bridge domain, and endpoint group (EPG) designs.
- ✓ Design Layer 2 and Layer 3 connectivity within ACI environments.
- ✓ Implement security policies and micro-segmentation strategies.
- ✓ Design external connectivity with traditional networks and cloud platforms.
- ✓ Integrate ACI with virtualization and multi-site deployments.
- ✓ Apply Cisco ACI design best practices and operational considerations.
- ✓ Create end-to-end ACI design solutions based on business requirements.

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Course Outline

✓ DAY 1

Cisco ACI Architecture and Design Fundamentals

Module 1: Introduction to Cisco ACI

- Evolution of Data Center Networking
- Software-Defined Networking (SDN) Concepts
- Cisco ACI Overview and Benefits
- Policy-Based Networking Principles

Module 2: Cisco ACI Components

- APIC Architecture
- Spine and Leaf Architecture
- ACI Fabric Components
- Endpoint Learning and Forwarding

Module 3: Fabric Design Considerations

- Scalability Planning
- High Availability Design
- Redundancy Models
- Hardware Selection Guidelines

Module 4: ACI Logical Constructs

- Tenants
- VRFs

- Bridge Domains
- Application Profiles
- Endpoint Groups (EPGs)
- Workshop

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Course Outline

✓ DAY 2

Network and Policy Design

Module 1: Tenant and Application Design

- ✓ Application-Centric Design Methodology
- ✓ Tenant Segmentation Strategies
- ✓ EPG Design Best Practices
- ✓ Contract Design

Module 2: Layer 2 and Layer 3 Design

- ✓ Layer 2 Connectivity Models
- ✓ Bridge Domain Design
- ✓ Layer 3 Routing within ACI
- ✓ VRF Design Considerations

Module 3: External Connectivity Design

- ✓ Connecting to Legacy Networks
- ✓ Routing Protocol Integration (OSPF, BGP, EIGRP)

Module 4: Security and Micro-Segmentation

- ✓ Contracts and Filters
- ✓ Security Policy Design
- ✓ Micro-Segmentation Strategies
- ✓ Multi-Tenant Security Models
- ✓ Workshop

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Course Outline

✓ DAY 3

Advanced ACI Design

Module 1: Virtualization Integration

- ✓ VMware Integration
- ✓ Microsoft Hyper-V Integration
- ✓ Virtual Machine Mobility
- ✓ VMM Domain Design

Module 2: Data Center Interconnect Design

- ✓ Multi-Pod Architecture
- ✓ Multi-Site Architecture
- ✓ Remote Leaf Design
- ✓ Disaster Recovery Considerations

Module 3: Cloud Integration

- ✓ Hybrid Cloud Design
- ✓ Public Cloud Connectivity
- ✓ Cloud APIC Overview

- ✓ Workload Mobility Strategies

Module 4: Security and Service Integration

- ✓ Firewall Integration
- ✓ Load Balancer Integration
- ✓ Service Graph Concepts
- ✓ Advanced Security Design
- ✓ Workshop

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Cisco ACI Design

Course Outline

✓ DAY 4

Advanced ACI Design

Module 1: Virtualization Integration

- ✓ VMware Integration
- ✓ Microsoft Hyper-V Integration
- ✓ Virtual Machine Mobility
- ✓ VMM Domain Design

Module 2: Data Center Interconnect Design

- ✓ Multi-Pod Architecture
- ✓ Multi-Site Architecture
- ✓ Remote Leaf Design
- ✓ Disaster Recovery Considerations

Module 3: Cloud Integration

- ✓ Hybrid Cloud Design
- ✓ Public Cloud Connectivity
- ✓ Cloud APIC Overview

- ✓ Workload Mobility Strategies

Module 4: Security and Service Integration

- ✓ Firewall Integration
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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 21, 2027	June 24, 2027	4 days	1550.00 \$	Virtual , Online
Nov. 1, 2027	Nov. 4, 2027	4 days	4250.00 \$	UAE , Dubai
June 7, 2027	June 10, 2027	4 days	4950.00 \$	Netherlands , Amsterdam

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