Proposal: Cisco-ACI Zero To Hero Bootcamp (300-620, 300-630)

Course Overview

The Implementing Cisco Application Centric Infrastructure v1.1 (DCACI) & Implementing Cisco Application Centric Infrastructure - Advanced v1.0 (DCACIA) course show you how to deploy and manage the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. The course gives you the knowledge and skills to configure and manage Cisco Nexus 9000 Series Switches in ACI mode, how to connect the Cisco ACI fabric to external networks and services, and fundamentals of Virtual Machine Manager (VMM) integration. You will gain hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more.

This course helps you prepare to take the exam, Implementing Cisco Application Centric Infrastructure (300-620 DCACI & 300-630 DCACIA), which leads to CCNP® Data Center and Cisco Certified Specialist – Data Center ACI Implementation certifications.

Prerequisites

The fully benefits from this course, you should have the following knowledge and skillst

- Understanding of networking protocols, routing, and switching
- Familiarity with Cisco Ethernet switching products Understanding of Cisco data center architecture.
- Familiarity with virtualization fundamentals

Next Step Training & Certification

- DCCOR 350-601
- CCIE Date Center

Services During Training

- **5xCCIE Certified** Trainer with Industry Experience
- **Study Resources:** Study Guide I Recorded Video's I Lab Access I Virtual Lab Setup
- **Support:** 24/7 Training, Lab & Management Support
- **Webinar:** Free Webinar's With Industry Experts in New Technologies
- Free Complimentary Course based on Performance.
- NES Certificate: After Training & Feedback Process
- Lab on all the blueprint topics
- Lab Access for individuals
- Personalised Sessions for Exam Preparation from Certified Trainer

Training Fee Details

Start Date	Check the Upcoming Batch
Training Cost	**INR 60,000/- I USD $750**
Duration	62 Hours Code: (300-620, 300-630)
Exam Cost	USD $300 (exclu. tax) (Vendor Exam)
Instructor	**5xCCIE Certified**
Days	Weekend (Saturday-Sunday)
Installments Options	NO EMI Options Available
Mode	Online Training
Enroll Now	**Click Here**

Who should attend

- Network Architect
- Network Engineer
- Network Designer
- Network Administrator
- Network Engineer
- Systems Engineer
- Data Center Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Integrators/Partners
- Network Manager
- Storage Administrator
- Cisco integrators and partners

Implementing Cisco Application Centric Infrastructure v1.1 (DCACI):

1.0: ACI Fabric Infrastructure:
- 1.1 Describe ACI topology and hardware
- 1.2 Describe ACI Object Model
- 1.3 Utilize , event record, and audit log
- 1.4 Describe ACI fabric discovery
- 1.5 Implement ACI policies
     - 1.5.a Access
     - 1.5.b Fabric

1.6 Implement ACI logical constructs
- 1.6.a Tenant
- .6.b Application profile
- 1.6.c VRF
- 1.6.d Bridge domain (unicast routing, Layer 2 unknown hardware proxy, ARP flooding)
- 1.6.e Endpoint groups (EPG)
- .6.f Contracts (filter, provider, consumer, reverse port filter, vzAny, VRF enforced)

2.0: ACI Packet Forwarding:
- 2.1 Describe endpoint learning
- 2.2 Implement bridge domain configuration knob (unicast routing, Layer 2 unknown hardware proxy, ARP flooding)

3.0: External Network Connectivity
- 3.1 Implement Layer 2 out (STP/MCP basics and EPG port bindings)
- 3.2 Implement Layer 3 out (excludes transit routing and VRF route leaking)

4.0: Integrations:
- 4.1 Implement VMware vCenter DVS integration
- 4.2 Describe resolution immediacy in VMM
- 4.3 Implement service graph

5.0: ACI Management:
- 5.1 Implement out-of-band and in-band
- 5.2 Utilize syslog and snmp services
- 5.3 Implement configuration backup (snapshot/config import export)
- 5.4 Implement AAA and RBAC
- 5.5 Configure an upgrad

Anywhere
- 6.1 Describe Multi-Pod
- 6.2 Describe Multi-Site

Implementing Cisco Application Centric Infrastructure - Advanced v1.0 (DCACIA):

1.0: ACI Packet Forwarding:
• 1.1 Describe packet forwarding between leafs (VxLAN)
• 1.2 Implement server NIC teaming with ACI
• 1.3 Implement endpoint learning optimizations (local/remote endpoint, limit IP subnet, enforce subnet check, IP dataplane leaning option in VRF, loop detection, and rogue EP)

2.0: Advanced ACI Policies and Integrations:
• 2.1 Implement Layer 3 out transit routing
• 2.2 Utilize common tenant
• 2.3 Implement VRF route leaking
• 2.4 Implement Layer 3 out VRF route leaking
• 2.5 Implement contracts (pcTag, global pcTab, contract priorities, taboo, and deny filter)
• 2.6 Implement Layer 4 through Layer 7 PBR (including use cases)

3.0: Multipod:
• 3.1 Implement IPN
• 3.2 Describe packet flow between pods
• 3.3 Describe firewall and load balancer design with multipod
• 3.4 Implement service graph with multipod

4.0: Multisite:
• 4.1 Implement Multi-Site Orchestrator
• 4.2 Implement ISN
• 4.3 Describe stretched component options
• 4.4 Describe communication across sites

5.0: Traditional network with ACI:
• 5.1 Describe network-centric and application-centric designs
• 5.2 Describe STP BPDU handling in ACI (FD-VNID and VLAN pool consideration)
• 5.3 Describe migration considerations

Why Choose NES For Cisco-ACI?

• **Expertise and Experience:** Look for a training provider with a proven track record in delivering high-quality Cisco CCIE training. Check for the qualifications and experience of their instructors.

• **5xCCIE Trainer:** Mostly training provider showing only CCIE certified for the promotion, and we are different because, All CCIE Track deliver by Our Expert 5xCCIE Trainer only. He share with you the real time experience as per the market requirements.

• **Live Sessions Recordings:** This is unique feature as provided by NES, we will give candidates to live recording classes so that all person having the own logins and 24x365 Days they can use the own batch recording, to recall each and every points.

- **24x7 Support:** NES provide 24x7 Lab and Management support, not only to written we will give the assurance to be the best services ever.

- **Certified Trainer:** NES Having a pool of CCIE Data Center certified Trainers and handling the real time industry experienced.

- **Comprehensive Course Content:** Ensure that the training courses cover all the necessary topics and skills required for the specific CCIE track you're pursuing. The courses should be up-to-date with the latest Cisco technologies and best practices.

- **Hands-on Labs and Practical Experience:** Practical experience is crucial for CCIE Data Center preparation. Look for courses that offer hands-on labs and opportunities to work with real Cisco equipment or simulators.

- **Flexibility and Accessibility:** Online training should be flexible and accessible, allowing you to learn at your own pace and from any location.

- **Student Reviews and Testimonials:** Check for reviews and testimonials from past students to gauge the effectiveness and quality of the training.

- **Cost and Value:** Compare the cost of the training courses with the value they provide in terms of content, support, and practical experience.

Cisco-ACI Lab Topology

Master Cisco ACI Zero-to-Hero Boot Camp

IPN/ISN

VMM Integration
L4-L7 Integration
PBR/Service Graph
External L2 Connectivity
External L3 Connectivity

Multipod
Multisite
NDO (Nexus Dashboard)
ACI Troubleshooting
ACI Automation

Cisco NDO

DC1
ACI Fabric 1

DC2
ACI Fabric 2

VMM   VMM   L3   L3

VMM   VMM   L3   L3