

## Implementing Cisco Data Center Virtualization and Automation (DCVAI)

Duration 5 Days

### COURSE CONTENT

The focus of this skills-building course is on the implementation and deployment automation of Cisco Application Centric Infrastructure (ACI) and Cisco Nexus switches. The course provides rich, hands-on experience in building a data center solution based on Cisco ACI. Learners are introduced to the automation capabilities offered by Python and RESTful APIs in combination with Cisco ACI and Cisco Nexus switches.

Upon completion of this course, you will be able to:

- Implement infrastructure virtualization solutions, such as VDC, VRFs, Cisco Nexus 1000v, and Cisco AVS
- Identify programmability methods and program Cisco Nexus switches using XML, Python, and NX-API
- Implement a Cisco ACI solution that provides fabric connectivity to bare-metal hosts, virtual machines, and external Layer 2 and Layer 3 domains
- Integrate Cisco ACI with virtual machine managers, such as VMware vCenter
- Enforce application policies in intra- and intertenant scenarios
- Deploy Cisco AVS and microsegmentation
- Program Cisco ACI using Python, RESTful APIs, and Arya
- Orchestrate Cisco ACI using the Cisco UCS Director
- Insert L4-L7 services into the Cisco ACI fabric
- Monitor Cisco ACI deployment using atomic counters and other monitoring tools

### COURSE OUTLINE

- **Module 1:** Implement Infrastructure Virtualization
- **Module 2:** Implement Infrastructure Automation
- **Module 3:** Implementing Application Centric Infrastructure
- **Module 4:** Implementing Application Centric Infrastructure Network Resources
- **Module 5:** Implementing Application Centric Infrastructure Management and Monitoring

### PREREQUISITES

It is recommended that a learner has the following knowledge and skills before attending this course:

- Describe data center networking concepts
- Describe data center storage concepts
- Describe data center virtualization

### Who Should Attend

- Channel Partners
- Customers
- Employees
- Entry-level to experienced Network Administrator
- Senior Network Engineer
- Presales Engineer
- Design Engineer
- Data Center Administrator
- Senior Systems Engineer
- Senior Technical Solutions Architect