

# Implementing Automation for Cisco Data Center Solutions (DCAUI)

**Price:** 4495

**Duration:**

**Delivery Methods:** Virtual

## Overview

The Implementing Automation for Cisco Data Center Solutions (DCAUI) training shows you how to implement Cisco Data Center automated solutions, including programming concepts, orchestration, and automation tools. The goal of this training is to highlight the tools and benefits of leveraging programmability and automation in the Cisco-powered Data Center. Examined platforms include Cisco ACI (the controller-based Data Center environment), Cisco NX-OS on all Cisco Nexus platforms for device-centric automation, and Cisco UCS for Data Center compute. Their current ecosystem of APIs, software development toolkits, and relevant workflows is inspected in detail together with open industry standards, tools, and APIs, such as Python, Ansible, Git, JSON/YAML, NETCONF/RESTCONF, and YANG.

This training prepares you for the 300-635 Automating Cisco Data Center Solutions (DCAUTO) certification exam. Introducing Automation for Cisco Solutions (CSAU) is required prior to enrolling in Implementing Automation for Cisco Data Center Solutions (DCAUI) because it provides crucial foundational knowledge essential to success.

## How You'll Benefit

This training will help you:

- Gain high-demand knowledge and skills in modern programming language to create powerful APIs that enhance network functioning
- Prepare for the 300-635 DCAUTO exam

## Who Should Enroll

- Channel and Customer Engineers including Network Engineers, System Engineers, Wireless Engineers, Consulting Systems Engineers, Technical Solutions Architects, Network Administrators, Wireless Design Engineers, Network Managers, Site Reliability Engineers, and Deployment Engineers
- Channel Sales Engineers
- Channel Account Managers

### **Learning Path Objectives**

- Review Cisco ACI fundamental concepts, GUI workflows, and create the case for implementing automation
- Introduce the Cisco ACI REST API, the tools already available on the Cisco APIC, and understand basic API interaction using Postman
- Understand the functionality provided by the Python ACI libraries and write scripts that apply configuration and verify state on the Cisco ACI fabric
- Understand Cisco ACI Ansible modules, build playbooks that apply Infrastructure-as-Code concepts to Cisco ACI tenant configuration, and generate a health report using Ansible
- Understand Cisco ACI Apps Center integration and the benefits of integrating Kubernetes infrastructure with Cisco ACI
- Understand the API types and capabilities available on Cisco Nexus product family
- Understand Day 0 operations and how ZTP, POAP, and iPXE fulfill these goals with their respective tooling
- Understand functionality provided by the on-box tooling on the Cisco Nexus series switches and implement simple solutions to improve daily operations
- Use Python and Ansible to leverage the NX-API to implement and verify configuration state using modern workflows
- Understand the paradigm shift of Model-Driven Telemetry and explore a fully set up pipeline for data collection and analysis
- Understand the Cisco UCS developer tools and implement management workflows leveraging Cisco UCS APIs, Python, and Ansible modules
- Review Cisco NDFC product capabilities and understand how its API can be leveraged to automate the Cisco Data Center
- Understand the advantages of using Cisco Intersight and how to implement automation tasks using its REST APIs via Python and Ansible
- Describe Terraform plans for Cisco ACI deployments

### **Learning Path Prerequisites**

Before taking this offering, you should have:

- Basic knowledge of programming language concepts
- Basic understanding of virtualization and VMware
- Ability to use Linux and CLI tools, such as SSH and bash
- CCNP level data center knowledge
- Foundational understanding of Cisco ACI

### **Course Schedule**

Date	Time	Price	Options
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### **What is your late policy?**

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### **What happens when I finish my class?**

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.