

# Implementing Automation for Cisco Data Center Solutions (DCAUI)

ID DCAUI Price CHF 3,890.—(excl. VAT) Duration 5 days

## Who should attend

- 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

## This course is part of the following Certifications

Cisco Certified DevNet Professional / CCNP Automation (CCDNP)  
Cisco Certified Network Professional Data Center (CCNP DATA CENTER)

## 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 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

## Training Centres worldwide



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