



Platinum Learning Partner
Business Learning Partner

Implementing Automation for Cisco Data Centre Solutions

DCAUTO: 300-635

Course Overview

The Implementing Automation for Cisco Data Centre Solutions (DCAUI) v1.0 course teaches you how to implement Cisco® Data Centre automated solutions including programming concepts, orchestration, and automation tools. Through a combination of lessons and hands-on practice, you will manage the tools and learn the benefits of programmability and automation in the Cisco-powered Data Centre. You will examine Cisco Application Centric Infrastructure (Cisco ACI®), Software-Defined Networking (SDN) for data centre and cloud networks, Cisco Nexus® (Cisco NX-OS) platforms for device-centric automation, and Cisco Unified Computing System (Cisco UCS®) for Data Centre compute. You will study their current ecosystem of Application Programming Interfaces (APIs), software development toolkits, and relevant workflows along with open industry standards, tools, and APIs, such as Python, Ansible, Git, JavaScript Object Notation (JSON), Yaml Ain't Markup Language (YAML), Network Configuration Protocol (NETCONF), Representational State Transfer Configuration Protocol (RESTCONF), and Yet Another Generation (YANG).

This course helps you prepare to take the 300-635 Implementing Automation for Cisco Data Centre Solutions (DCAUTO) Exam

Prerequisite Knowledge

To fully benefit from this course, you should have the following knowledge and skills:

- Basic programming language concepts
- Basic understanding of virtualization and VMware
- Ability to use Linux and Command Line Interface (CLI) tools, such as Secure Shell (SSH) and bash
- Foundational understanding of Cisco ACI

These Cisco courses are recommended to help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®)
- Introducing Automation for Cisco Solutions (CSAU) **
- Implementing and Operating Cisco Data Centre Core Technologies (DCCOR)
- Programming Use Cases for Cisco Digital Network Architecture (DNAPUC)
- Introducing Cisco Network Programmability (NPICNP)

** Required to write this exam



Real skills for real engineers

Implementing Automation for Cisco Data Centre Solutions

Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Leverage the tools and APIs to automate Cisco ACI powered data centres.
- Demonstrate workflows (configuration, verification, health-checking, monitoring) using Python, Ansible, and Postman.
- Leverage the various models and APIs of the Cisco Nexus OS platform to perform day 0 operations, improve troubleshooting methodologies with custom tools, augment the CLI using scripts, and integrate various workflows using Ansible and Python.
- Describe the paradigm shift of Model Driven Telemetry and understand the building blocks of a working solution.
- Describe the Cisco Data Centre compute solutions can be managed and automated using API centric tooling, by using the Python SDK, PowerTool, and Ansible modules to implement various workflows on Cisco UCS, Cisco IMC, Cisco UCS Manager, Cisco UCS Director, and Cisco Intersight.

