Implementing Automation for Cisco Enterprise Solutions (ENAUI)

Price: 2995

Duration: 3 days

Delivery Methods: Virtual

Overview

The Implementing Automation for Cisco Enterprise Solutions (ENAUI) training teaches you how to implement Cisco Enterprise automated solutions, including programming concepts, orchestration, telemetry, and automation tools. This course highlights the tools and the benefits of leveraging programmability and automation in the Cisco-powered Enterprise Campus and WAN. You will also examine platforms including IOS XE software for device-centric automation, Cisco DNA Center for the intent-based enterprise network, Cisco Software-Defined WAN, and Cisco Meraki. Their current ecosystem of APIs, software development toolkits, and relevant workflows are studied in detail together with open industry standards, tools, and APIs, such as Python, Ansible, Git, JSON/YAML, NETCONF/RESTCONF, and YANG.

How You'll Benefit

This course will help you:

Gain high-demand skills using modern programming languages, APIs, and systems such as Python, Ansible, and Git to automate, streamline, and enhance business operations.

Acquire the skills and knowledge to customize tools, methods, and processes that improve network performance and agility

Earn 24 CE credits toward recertification

Prepare for the 300-435 ENAUTO exam

Who Should Enroll

Consulting systems engineer

Network administrator

Network engineer

Network manager

Sales engineer

Systems engineer

Technical solutions architect

Wireless design engineer

Wireless engineer

Learning Path Objectives

After completing the course, you should be able to:

Get familiar with different API styles (REST, RPC) and synchronous and asynchronous API requests

Learn how to use Postman software development tool in order to test the API calls

Learn how to automate repetitive tasks using Ansible automation engine

Explore a Python programming language, Python libraries and Python virtual environments and learn how they can be used for automation of network configuration tasks

Get introduced to GIT version control system and its common operations

Learn how to leverage the various models and APIs of the Cisco IOS XE platform to perform day-zero operations, improve troubleshooting methodologies with custom tools, augment the CLI using scripts, and integrate various workflows using Ansible and Python

Learn about the paradigm shift of model-driven telemetry and the building blocks of a working solution

Learn how to leverage the tools and APIs to automate Cisco DNA infrastructure managed by Cisco DNA Center

Demonstrate workflows (configuration, verification, health checking, and monitoring) using Python, Ansible, and Postman

Understand Cisco SD-WAN solution components, implement a Python library that works with the Cisco SD-WAN APIs to perform configuration, inventory management, and monitoring tasks, and implement reusable Ansible roles to automate provisioning new branch sites on an existing Cisco SD-WAN infrastructure

Learn how to leverage the tools and APIs to automate Cisco Meraki managed infrastructure and demonstrate workflows (configuration, verification, health checking, monitoring) using Python,

Ansible, and Postman.

Learning Path Prerequisites

Before taking this course, you should have the following knowledge and skills:

Basic programming language concepts

Basic understanding of virtualization

Ability to use Linux and CLI tools, such as Secure Shell (SSH) and bash

CCNP level core networking knowledge

Foundational understanding of Cisco DNA, Meraki, and Cisco SD-WAN

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

Introducing Automation for Cisco Solutions (CSAU)

Implementing and Administering Cisco Solutions (CCNA)

Implementing Cisco Enterprise Network Core Technologies (ENCOR)

Course Schedule

Date	Time	Price	Options

Why Professional Choose TOPTALENT?

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FAQ

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Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

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You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

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.