Implementing Automation for Cisco Enterprise Solutions (ENAUI) 1.3

Description:

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.

Duration: 24 HRS

Prerequisite:

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)

Outline:

- Network Programmability Foundation

- Automating APIs and Protocols

- Managing Configuration with Python and Ansible

- Implementing On-Box Programmability and Automation with Cisco IOS XE Software

- Implementing Model-Driven Telemetry

- Day 0 Provisioning with Cisco IOS-XE Software

- Implementing Automation in Enterprise Networks

- Building Cisco DNA Center Automation with Python

- Automating Operations using Cisco DNA Center

- Introducing Cisco SD-WAN Programmability

- Building Cisco SD-WAN Automation with Python

- Building Cisco SD-WAN Automation with Ansible

- Automating Cisco Meraki

- Implementing Meraki Integration APIs