

IMPLEMENTING AUTOMATION FOR CISCO ENTERPRISE SOLUTIONS (ENAU1) V1.2

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The Implementing Automation for Cisco Enterprise Solutions (ENAU1) V1.2 course 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 M. 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.

This course also helps you prepare to take the exam, Automating Cisco Enterprise Solutions (ENAUTO 300-435).

How you'll benefit

This class 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

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Network Engineer
- Systems Engineer
- Wireless Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Network Administrator
- Wireless Design Engineer
- Network Manager
- Sales Engineer

Course Duration

3 days

Course Price

\$2,995.00 or 30 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

- Account Manager

OUTLINE

Module 1: Network Programmability Foundation

Module 2: Automating APIs and Protocols

Module 3: Managing Configuration with Python and Ansible

Module 4: Implementing On-Box Programmability and Automation with Cisco IOS XE Software

Module 5: Implementing Model-Driven Telemetry

Module 6: Day 0 Provisioning with Cisco IOS-XE Software

Module 7: Implementing Automation in Enterprise Networks

Module 8: Building Cisco DNA Center Automation with Python

Module 9: Automating Operations using Cisco DNA Center

Module 10: Introducing Cisco SD-WAN Programmability

Module 11: Building Cisco SD-WAN Automation with Python

Module 12: Building Cisco SD-WAN Automation with Ansible

Module 13: Automating Cisco M

Module 14: Implementing M Integration APIs

LAB OUTLINE

- Lab 1: Automate Networks with Netmiko
- Lab 2: Use Postman for REST API Consumption
- Lab 3: Use Ansible to Configure and Verify Device Configuration
- Lab 4: Implement On-Box Programmability and Automation with Cisco IOS XE Software
- Lab 5: Use Python on Cisco IOS XE Software
- Lab 6: Implement Streaming Telemetry with Cisco IOS XE
- Lab 7: Explore Cisco DNA Center APIs
- Lab 8: Build Python Scripts to Interact with Cisco DNA Center Intent APIs
- Lab 9: Build Python Scripts with Cisco DNA Center Assurance APIs

- **Lab 10: Troubleshoot End-to-End Connectivity and Health-Check the Network via the Cisco DNA Center API**
- **Lab 11: Perform Administrative Tasks Using the Cisco SD-WAN API**
- **Lab 12: Build, Manage, and Operate Cisco SD-WAN Programmatically**
- **Lab 13: Consume SD-WAN APIs Using the Uniform Resource Identifier (URI) Module**
- **Lab 14: Manage Policies with Ansible**
- **Lab 15: Build Reports Using Ansible-Cisco SD_WAN Role**
- **Lab 16: Implement Cisco M API Automation**
- **Lab 17: Explore Cisco M Integration APIs**
- **Lab 18: Explore Cisco M Webhook Alerts**