+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com

WHERE GREAT TRAINING HAPPENS EVERYDAY!

IMPLEMENTING AUTOMATION FOR CISCO DATA CENTER SOLUTIONS (DCAUI) V1.2

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The Implementing Automation for Cisco Data Center Solutions (DCAUI) training shows you how to implement Cisco Data Center automated solutions, including programming concepts, orchestration, and automation tools. The goal of this 5-day training is to highlight the tools and benefits of leveraging programmability and automation in the Cisco-powered Data Center. Examined platforms include Cisco ACI (the controller-based Data Center environment), Cisco NX-OS on all Cisco Nexus platforms for device-centric automation, and Cisco UCS for Data Center compute. Their current ecosystem of APIs, software development toolkits, and relevant workflows is inspected in detail together with open industry standards, tools, and APIs, such as Python, Ansible, Git, JSON/YAML, NETCONF/RESTCONF, and YANG.

This training prepares you for the 300-635 Automating Cisco Data Center Solutions (DCAUTO) certification exam. Introducing Automation for Cisco Solutions (CSAU) is required prior to enrolling in Implementing Automation for Cisco Data Center Solutions (DCAUI) because it provides crucial foundational knowledge essential to success. .

How you'll benefit

This class will help you:

- Learn the tools and the benefits of leveraging programmability and automation in the Cisco-powered Data Center
- Examine platforms include Cisco ACI (the controller-based Data Center environment), Cisco NX-OS on all Cisco Nexus platforms for device-centric automation, and Cisco UCS for Data Center compute
- Inspect the current ecosystem of APIs, software development toolkits, and relevant workflows in detail together with open industry standards, tools, and APIs, such as Python, Ansible, Git, JSON/YAML, NETCONF/RESTCONF, and YANG

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:

- Channel and Customer Engineers
- Channel Sales Engineers
- Channel Account Managers
- Network Engineers
- Network Engineers
- System Engineers
- Wireless Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Network Administrators
- Wireless Design Engineers
- Network Managers
- Site Reliability Engineers
- Deployment Engineers

OUTLINE

Module 1: Describing the Cisco ACI Policy Model

Module 2: Describing the Cisco APIC REST API

Module 3: Using Python to Interact with the ACI REST API

Module 4: Using Ansible to Automate Cisco ACI

Module 5: Introducing Cisco NX-OS Programmability

Module 6: Describing Day-Zero Provisioning with Cisco NX-OS

Module 7: Implementing On-Box Programmability and Automation with Cisco NX-OS

Module 8: Automating Cisco UCS Using Developer Tools

Module 9: Describing Cisco Intersight

LAB OUTLINE

- **Lab 1: Use Cisco APIC Web GUI**

- **Lab 2: Discover the Cisco APIC REST API**

- **Lab 3: Use Postman with the APIC REST API**

- **Lab 4: Use Python with the Cisco APIC REST API**

- **Lab 5: Configure and Verify Cisco ACI Using Acitoolkit**

- **Lab 6: Use Cobra and Arya to Recreate a Tenant**

Current Technologies CLC   Configuring and Administering Cisco WEBEX

- **Lab 7: Manage Configuration Using Ansible**

- **Lab 8: Set Up a New Tenant the NetDevOps Way**

- **Lab 9: Create an Infrastructure Health Report**

- **Lab 10: Set Up Power on Auto Provisioning on the Cisco Nexus 9000**

- **Lab 11: Use Bash and Guest-Shell on Cisco NX-OS**

- **Lab 12: Use Python to Enhance CLI Commands**

- **Lab 13: Trigger a Python Script Using Cisco Embedded Event Manager (EEM)**

- **Lab 14: Configure and Verify Using NX-API and Python**

- **Lab 15: Configure and Verify Using NETCONF/YANG**

- **Lab 16: Use Ansible with NX-OS**

- **Lab 17: Streaming Telemetry**

- **Lab 18: Connect, Query, and Modify Cisco UCS Manager Objects Using Cisco UCS PowerTool**

- **Lab 19: Connect, Query, and Modify Cisco UCS Integrated Management Controller (IMC) Objects Using Cisco IMC PowerTool**

- **Lab 20: Utilize Cisco UCS Python Software Development Kit (SDK)**

- **Lab 21: Utilize Cisco IMC Python SDK**

- **Lab 22: Implement Ansible Playbooks to Modify and Verify the Configuration of Cisco UCS Manager**