

Automating Networks Using Cisco Platforms

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The Automating Networks Using Cisco Platforms (CCNAAUTO) training teaches you how to implement basic network applications using Cisco platforms as a base, and how to implement automation workflows across network, security, collaboration, and computing infrastructure. The training gives you hands-on experience solving real-world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

This training prepares you for the 200-901 CCNAAUTO v1.1 exam. If passed, you earn the Cisco Certified Network Associate (CCNA) Automation certification. This training also earns you 48 Continuing Education (CE) credits toward recertification.

How you'll benefit

This class will help you:

- Take advantage of the network when you implement applications to fulfill business needs
- Gain a foundation in the essentials of applications, automation, and Cisco platforms
- Prepare for the 200-901 CCNAAUTO v1.1 exam
- Earn 48 CE credits toward recertification

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 Automation Engineers
- Software Developers
- System Integration Programmers
- Infrastructure Architects
- Network Designers

Prerequisites

There are no prerequisites for this training.

However, the knowledge and skills you are recommended to have before attending this training are:

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills
- Hands-on experience with a programming language (specifically Python)

Course Duration 5 days
Course Price \$4,295.00 or 45 CLCs
Methods of Delivery <ul style="list-style-type: none">• Instructor Led• Virtual ILT• On-Site

OUTLINE

Module 1: Practicing Modern Software Development

Module 2: Describing Software Development Process

Module 3: Designing Software

Module 4: Introducing Network-Based APIs

Module 5: Consuming REST-Based APIs

Module 6: Introducing Cisco Platforms and APIs

Module 7: Employing Programmability on Cisco Platforms

Module 8: Describing IP Networks

Module 9: Relating Network and Applications

Module 10: Employing Model-Driven Programmability

Module 11: Deploying Applications

Module 12: Automating Infrastructure

Module 13: Testing and Securing Applications

Module 14: Lab Code Reference

LAB OUTLINE

- Lab 1: Parse API Data Formats with Python
- Lab 2: Use Git for Version Control
- Lab 3: Identify Software Architecture and Design Patterns on a Diagram
- Lab 4: Implement Singleton Pattern and Abstraction-Based Method
- Lab 5: Inspect HTTP Messages
- Lab 6: Use Postman
- Lab 7: Troubleshoot an HTTP Error Response
- Lab 8: Utilize APIs with Python
- Lab 9: Use the Cisco Webex Collaboration API
- Lab 10: Interpret a Basic Network Topology Diagram
- Lab 11: Identify the Cause of Application Connectivity Issues
- Lab 12: Perform Basic NETCONF Operations
- Lab 13: Utilize Bash Commands for Local Development
- Lab 14: Construct Infrastructure Automation Workflow
- Lab 15: Construct a Python Unit Test

- Lab 16: Interpret a Dockerfile
- Lab 17: Utilize Docker Commands to Manage Local Developer Environment
- Lab 18: Exploit Insufficient Parameter Sanitization