

Developing Applications and Automating Workflows Using Cisco Core Platforms (DEVASC) V1.1

Implementing Automation for Cisco Collaboration Solutions (CLAUI) V1.1

The Developing Applications and Automating Workflows Using Cisco Core Platforms (DEVASC) training helps you prepare for Cisco® DevNet Associate certification and for associate-level network automation engineer roles. You will learn 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 course gives you hands-on experience solving real world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

This training helps you prepare to take the 200-901 DevNet Associate (DEVASC) exam. By passing this exam, you earn Cisco Certified DevNet Associate certification.

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
- Earn 48 CE credits toward recertification
- Prepare for the 200-901 DEVASC exam

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 Engineer
- Software Developer
- System Integration Programmer
- Infrastructure Architect
- Network Designer

OUTLINE

Module 1: Practicing Modern Software Development

Module 2: Describing Software Development Process

Module 3: Designing Software

Course Duration

5 days

Course Price

\$4,495.00 or 45 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Module 4: Introducing Network-Based APIs

Module 5: Consuming REST-Based APIs

Module 6: Employing Programmability on Cisco Platforms

Module 7: Introducing Cisco Platforms

Module 8: Describing IP Networks (ELT only)

Module 9: Relating Network and Applications

Module 10: Employing Model-Driven Programmability with YANG

Module 11: Deploying Applications

Module 12: Testing and Securing Applications

Module 13: Automating Infrastructure

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 Protocol Messages**
- **Lab 6: Use Postman**
- **Lab 7: Troubleshoot an HTTP Error Response**
- **Lab 8: Utilize APIs with Python**
- **Lab 9: Use the Cisco Controller APIs**
- **Lab 10: Use the Cisco WebEx Teams™ Collaboration API**
- **Lab 11: Interpret a Basic Network Topology Diagram**
- **Lab 12: Identify the Cause of Application Connectivity Issues**
- **Lab 13: Perform Basic Network Configuration Protocol (NETCONF) Operations**
- **Lab 14: Use Cisco Software Development Kit (SDK) and Python for Automation Scripting**
- **Lab 15: Utilize Bash Commands for Local Development**
- **Lab 16: Construct a Python Unit Test**
- **Lab 17: Interpret a Dockerfile**
- **Lab 18: Utilize Docker Commands to Manage Local Developer Environment**

- **Lab 19: Exploit Insufficient Parameter Sanitization**
- **Lab 20: Construct Infrastructure Automation Workflow**