

**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**

**Course Duration**

5 days

**Course Price**

$4,495.00 or 45 CLCs

**Methods of Delivery**

 Instructor Led

 Virtual ILT

 On-Site

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**

**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**