

## Developing Applications Using Cisco Core Platforms and APIs (DEVCOR) V2.0

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The Developing Applications Using Cisco Core Platforms and APIs training is designed to help you prepare for the Cisco DevNet Professional certification and professional-level network automation engineer roles. The focus of this training is implementation of network applications using Cisco platforms as a base, from initial software design to diverse system integration, as well as testing and deployment automation. The training provides hands-on experience solving real world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

#### How you'll benefit

This class will help you:

- Take full advantage of the network and software development practices when implementing applications to fulfill business needs
- Design and implement automated workflows for network provisioning
- Design and develop applications built on Cisco platforms
- Design and implement integration of custom applications with Cisco platforms and devices
- Understand challenges in network programmability and system integration
- Gain knowledge for protocols, solutions, and designs to acquire professional-level and expert-level DevOps roles
- Earn 64 CE credits toward recertification
- Prepares you for the 350-901 DEVCOR 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:

- Senior Network Automation Engineer
- Senior Software Developer
- Senior System Integration Programmer
- Senior Infrastructure Architect
- Senior Network Designer
- Senior Test Development Engineer

#### Course Duration

5 days

#### Course Price

\$4,495.00 or 45 CLCs

#### Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

## **OUTLINE**

**Module 1: Designing for Maintainability**

**Module 2: Designing for Serviceability**

**Module 3: Implementing ChatOps Application**

**Module 4: Describing Advanced REST API Integration**

**Module 5: Securing Application Data**

**Module 6: Securing Web and Mobile Applications**

**Module 7: Automating Application-Release**

**Module 8: Deploying Applications**

**Module 9: Understanding Distributed Systems**

**Module 10: Orchestrating Network and Infrastructure**

**Module 11: Modeling Data with YANG**

**Module 12: Using Relational and Non-Relational Databases**

## **LAB OUTLINE**

- **Lab 1: Construct Sequence Diagram**
- **Lab 2: Construct Web Sequence Diagram**
- **Lab 3: Use Cisco Webex Teams™ API to Enable ChatOps**
- **Lab 4: Integrate Cisco API to List Service Set Identifiers (SSIDs) and Retrieve Location Data**
- **Lab 5: Use Paginated REST API Endpoint**
- **Lab 6: Utilize REST API Error Control Flow Techniques**
- **Lab 7: Evaluate Application for Common Open Web Application Security Project (OWASP) Vulnerabilities**
- **Lab 8: Resolve Merge Conflicts with Git**
- **Lab 9: Diagnose Continuous Integration and Continuous Delivery (CI/CD) Pipeline Failures**
- **Lab 10: Containerize Application Using Docker**

- **Lab 11: Integrate Application into Existing CI/CD Environment**
- **Lab 12: Diagnose Problems Using Application Logs**
- **Lab 13: Configure Network Parameters Using Ansible and Puppet**
- **Lab 14: Synchronize Firepower Device Configuration**
- **Lab 15: Utilize RESTCONF for Network Configuration**
- **Lab 16: Query Relational Database**
- **Lab 17: Query Document Store**
- **Lab 18: Query Time Series Database**
- **Lab 19: Query Graph Database**