



Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

Course ID 7000-249-ZZ-Z

Hours: 35

Course Content

Course Description:

Developing Applications Using Cisco Core Platforms and APIs (DEVCOR) is a 5-day course which helps students prepare for Cisco DevNet Professional certification and for professional-level network automation engineer roles. Students will learn how to implement network applications using Cisco® platforms as a base, from initial software design to diverse system integration, as well as testing and deployment automation. The course gives you hands-on experience solving real world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

At Course Completion:

After completing this course, student will be able to:

- Describe the architectural traits and patterns that improve application maintainability
- Describe the architectural traits and patterns that improve application serviceability
- Identify steps to design and build a ChatOps application
- Implement robust Representational State Transfer (REST) API integrations with network error handling, pagination, and error flow control
- Describe the necessary steps for securing user and system data in applications
- Describe the necessary steps for securing applications
- Identify common tasks in automated application release process
- Describe best practices for application deployment
- Describe methodologies for designing distributed systems
- Describe the concepts of infrastructure configuration management and device automation
- Utilize Yet Another Next Generation (YANG) data models to describe network configurations and telemetry
- Compare various relational and non-relational database types and how to select the appropriate type based on requirements

Prerequisites:

- Knowledge of program design and coding with focus on Python
- Familiarity with Ethernet, TCP/IP, and Internet-related networking
- Understand the utilization of APIs
- Understanding of software development and design methodologies
- Hands-on experience with a programming language (specifically Python)

Target Student:



Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

Course ID 7000-249-ZZ-Z

Hours: 35

Topics:

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