Developing Applications Using Cisco Platforms and APIs
(DEVCOR)

ID DEVCOR   **Price** 4,795.— €(excl. tax)   **Duration** 5 days

Course Overview

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.

This training prepares you for the 350-901 DEVCOR exam. If passed, you earn the Cisco Certified DevNet Specialist – Core certification and satisfy the core exam requirement for the Cisco Certified DevNet Professional and Cisco Certified DevNet Expert certifications. This training also earns you 64 Continuing Education (CE) credits toward recertification.

Please note that this course lab access is valid for 60 hours or 90 days whichever is the shorter, so please ensure you exit the lab exercises when not in use. How You'll Benefit This training 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

What to Expect in the Exam

350-901: Developing Applications Using Cisco Core Platforms and APIs is a 120-minute exam associated with the Cisco Certified DevNet Specialist – Core certification and satisfies the core exam requirement for the Cisco Certified DevNet Professional and Cisco Certified DevNet Expert certifications.

The exam tests your knowledge of software development and design, including:

- Using APIs
- Cisco platforms
- Application deployment and security
- Infrastructure and automation

Who should attend

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

This course is part of the following Certifications

Cisco Certified DevNet Professional (CCDNP)

Prerequisites

The knowledge and skills you are expected to have before attending this training are:

- Knowledge of program design and coding with focus on Python
- Familiarity with Ethernet, Transmission Control Protocol Internet Protocol (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)

These skills can be found in the following Cisco Learning Offering:

- Developing Applications and Automating Workflows using Cisco Core Platforms (DEVASC)

Course Objectives

- Describe the architectural traits and patterns that improve application maintainability and 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 applications and their user and system data
- 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 nonrelational database types and how to select the appropriate type based on requirements

Detailed Course Outline

- Designing for Maintainability
- Designing for Serviceability
- Implementing ChatOps Application
- Advanced REST API Integration
- Securing Application Data
- Securing Web and Mobile Applications
- Automating Application Release
- Deploying Applications
- Exploring Distributed Systems
- Orchestrating Network and Infrastructure
- Modeling Data with YANG
- Using Relational and Nonrelational Databases

About Fast Lane

Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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