Developing APIs with Google Cloud's Apigee API Platform Training

Duration: **3 Day**

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The Developing APIs with Google Cloud's Apigee API Platform course teaches developers how to design, build, secure, and manage APIs using the Apigee platform. The course covers the full API lifecycle, from design and documentation to deployment, security, and analytics.

Participants will learn how to define APIs using OpenAPI specifications, implement APIs through API proxies, and package them as API products for developers. The course also includes publishing APIs to developer portals and managing API performance using analytics tools.

Prerequisites

Participants should have:

- Familiarity with HTTP
- Knowledge of XML and JSON
- Basic JavaScript understanding

Who Should Attend

This course is suitable for:

- Developers building APIs
- Architects designing API strategies
- Engineers managing APIs and digital products

What You Will Learn

By the end of this course, learners will be able to:

- Understand REST API design and API-first principles
- Explain the API lifecycle and Apigee's role
- Learn Apigee terminology and structure
- Develop APIs using API proxies
- Package and publish APIs as products
- Apply OAuth and other security policies
- Implement traffic management and caching
- Publish APIs via developer portals
- Analyse API usage and performance
- Deploy and manage APIs on Apigee

Training Outline

Apigee Overview

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- Role of API management
- Platform components
- Deployment models
- API lifecycle

API-first Design and OpenAPI

- REST API principles
- API-first development
- OpenAPI specifications

API Proxies

- Proxy structure
- Backend integration
- Proxy generation
- Debugging tools

API Products

- API product concepts
- Developer and app management
- API keys
- Publishing process

Security and OAuth

- API security practices
- Authentication and authorization
- OAuth and JWT
- Security policies

Content and Data Security

- Protection against attacks
- Transport security
- Data masking
- Secure debugging

Mediation

- JSON, XML, SOAP integration
- Service callouts
- JavaScript and Java extensions
- Policy reuse

Traffic Management

- Rate limiting
- Caching
- Performance optimization

API Publishing

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- Lifecycle management
- Versioning
- Developer portals

Logging and Analytics

- Logging options
- API analytics
- Usage insights

Advanced Topics

- CI/CD workflows
- Deployment strategies