

Google Cloud Apigee API Platform Training

COURSE CONTENT

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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The Google Cloud Apigee API Platform Training by Multisoft Systems is designed to equip professionals with in-depth knowledge and hands-on skills in API management using the Apigee platform. Apigee, a leading full lifecycle API management tool from Google Cloud, enables organizations to design, secure, deploy, monitor, and scale APIs effectively across cloud and on-premise environments.

Module 1: Apigee Overview

- ✓ Understand the placement and role of API management in modern application development
- ✓ Define logical components and organizational structure of Apigee API platform
- ✓ Differentiate between Apigee flexible deployment models
- ✓ Explain the API lifecycle

Module 2: API First and OpenAPI Specifications

- ✓ Describe the fundamentals of REST API design
- ✓ Understand the value of API-first development and how to apply it
- ✓ Discuss OpenAPI specifications and their use in the context of API-first development

Module 3: API Proxies

- ✓ Define the building blocks of APIs and API proxies
- ✓ Describe how APIs proxies work and how capabilities such as flows, policies, route rules, virtual hosts and target servers play a role
- ✓ Understand how APIs are exposed
- ✓ Understand how API proxies connect to backend systems

Module 4: API Products

- ✓ Define API products and the value behind API product strategy
- ✓ Understand the role of developers, applications, and API keys in API management
- ✓ Describe the API publication process
- ✓ Understand API responses and status codes for REST APIs

Module 5: Authentication, Authorization, and OAuth

- ✓ Discuss the importance of API Security
- ✓ Understand the value of application identity

- ✓ Understand the role of user authentication and authorization
- ✓ Gain deep understanding of OAuth (Access token, Refresh token, Common pattern for all grant types) and its application in the context of API design and management
- ✓ Discuss federated identity and the use of JSON Web Tokens in your API proxies

Module 6: Content, Transport, and Internal Security

- ✓ Explore platform capabilities for protecting against content-based attacks
- ✓ Discuss transport security and how to protect the connection between Apigee and backend services
- ✓ Understand how to protect sensitive data using KVMs, data masking, and private variables

Module 7: Mediation

- ✓ Understand the out-of-the-box platform capabilities for implementing mediation and fault handling
- ✓ Describe implementation patterns and policies for JSON, XML, and SOAP
- ✓ Understand extensibility options using Service Callouts, JavaScript, Python, and hosted targets
- ✓ Explore development practices and capabilities used to reuse, share, and enforce execution of flows and policies

Module 8: Traffic Management

- ✓ Describe when and how to use traffic management
- ✓ Evaluate options and applicable use cases for rate limiting with spike arrests and quotas
- ✓ Understand caching strategy and how to apply it

Module 9: API Publishing

- ✓ Describe API publishing strategy and process
- ✓ Expand understanding of REST API design by discussing API versioning
- ✓ Describe the role of developer portals in the API lifecycle and as a critical part of API strategy

Module 10: Logging and Analytics

- ✓ Discuss available options for message logging
- ✓ Understand the value and use of API analytics
- ✓ Understand the extensibility options available for API analytics using custom metrics and dimensions

Module 11: Advanced Topics

- ✓ Discuss recommended practices and tooling for Apigee offline development
- ✓ Describe the capabilities offered by management API
- ✓ Evaluate options to leverage CI/CD as part of API lifecycle
- ✓ Explore Apigee Deployment Options