

Course : Developing APIs with Google Cloud's Apigee API Platform

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Practical course - 3d - 21h00 - Ref. GQL

Price : 2890 € E.T.

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With this course, you'll learn how to create APIs that use multiple services and how to use custom code on Apigee. You'll also learn how to handle failures and share proxies logic, discover traffic management and caching. You'll create a developer portal and publish your API on the portal. You'll learn about logging and analysis, as well as CI/CD and the different deployment models supported by Apigee.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Identify the purpose and value of the Apigee platform
- ✓ Understanding Apigee's terminology and organizational model
- ✓ Interacting with the Apigee API platform
- ✓ Applying an API-first approach and best practices to solve scenarios
- ✓ Understanding and implementing API lifecycles and security

Intended audience

Developers, architects or engineers responsible for designing, implementing or managing APIs, API products or digital products that use APIs.

Prerequisites

Basic knowledge of HTTP, XML, JSON and JavaScript, but not mandatory.

Certification

Official course without certification.

Practical details

Teaching methods

Training in French. Official course material in English.

PARTICIPANTS

Developers, architects or engineers responsible for designing, implementing or managing APIs, API products or digital products that use APIs.

PREREQUISITES

Basic knowledge of HTTP, XML, JSON and JavaScript, but not mandatory.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Course schedule

1 Introducing Apigee

- Understand the position and role of API management in modern application development.
- Define the logical components and organizational structure of the Apigee API Platform.
- Differentiate between Apigee flexible deployment models.
- Explain the application programming interface (API) life cycle.

2 API First and OpenAPI specifications

- Describe the fundamental principles of REST API design.
- Understand the value of API-First development and how to apply it.
- Discuss the OpenAPI specification and its use in the context of API-First development.

3 API proxies

- Define API and API proxy building blocks.
- Describe how API proxies work and the role of features such as flows, policies, etc.
- Describe how APIs are exposed.
- Understand how API proxies connect to back-end systems.

4 API products

- Define API products and API product strategies.
- 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.

5 Authentication, authorization and OAuth

- Discuss the importance of application programming interface (API) security.
- Understand the value of application identity.
- Understand the role of user authentication and authorization.
- Understand OAuth and its application in the context of API design and management.
- Understand federated identity and the use of JSON web tokens in API proxies.

6 Content, transport and internal security

- The platform's ability to protect against content-based attacks.
- Transport security and how to protect the connection between Apigee and back-end services.
- Protect sensitive data with KVM, data masking and private variables.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

7 Mediation

- Ready-to-use platform capabilities for mediation and fault management.
- Implementation models and policies for JSON, XML and SOAP.
- Extensibility options using service calls, JavaScript and Java.
- Development practices and capabilities used to share and implement flows and policies.

8 Traffic Management

- When and how to use traffic management.
- Applicable options and use cases for flow limitation with peak stops and quotas.
- Caching strategy and how to apply it.

9 API publishing

- The strategy and process for publishing application programming interfaces.
- Better understanding of REST API design by discussing API version management.
- The role of developer portals in the API lifecycle and API strategy.

10 Logging and analysis

- Options available for message logging.
- The value and use of application programming interface (API) analysis.
- Extensibility options available for API analysis using custom metrics.
- Extensibility options available for API analysis using custom dimensions.

11 Advanced topics

- Discuss recommended practices and tools for offline Apigee development.
- Describe the features offered by the Apigee API.
- Evaluate options for leveraging CI/CD as part of the API lifecycle.
- Explore Apigee deployment options.

Dates and locations

REMOTE CLASS

2026: 9 June, 24 Nov.

PARIS LA DÉFENSE

2026: 9 June, 24 Nov.