

Updated 05/02/2025

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# API Platform training

3 days (21 hours)

## Presentation

In computing, an application programming interface (API) is a standardized set of classes, methods or functions that serves as the front end through which software offers services to other software. It is offered by a software library or web service, usually accompanied by a description that specifies how consumer programs can use the functionality of the provider program.

In today's software industry, computer applications make use of numerous programming interfaces, and programming is done by reusing bricks of functionality provided by third-party software.

This assembly-based construction requires the programmer to know how to interact with other software, which depends on their programming interface.

The programmer doesn't need to know the details of the third-party software's internal logic, and this is generally not documented by the supplier.

Software such as operating systems, management systems, programming languages or application servers feature a programming interface.

We'll be teaching you about the latest stable version of the tool, [API Platform 4.0](#).

## Objectives

- Understand the technical, functional and business challenges of APIs
- Control your API consumption and open it up to developers
- Deploy and maintain a sustainable API strategy.

## Target audience

- CIOs, Architects, Developers, Administrators, Business Analysts.

## Prerequisites

- General knowledge of information systems architecture and HTTP application protocol.

## Software requirements

- An installed IDE (PHPStorm, VSCode, Netbeans...)
- An API client

## API Platform training program

### General operation of api platform

- Architecture / design
- Supported technologies
- Supported data formats
- Tools supplied

### API Resource annotation

- Operations
- api doc
- Events
- Create a custom controller

### Retrieving and sending data

- Pagination
- Filters
- Extensions
- Sub-resources
- Validate your data
- Securing your API

### Building a suitable serialization

- The ApiProperty annotation

- Normalizers, Denormalizers
- Context builder
- Groups
- DataTransformer, DTO

## Extending Api Platform functionalities

- Messenger integration
- Discover data providers / persisters
- Automatically add and configure operations with OperationMetadataFactory
- Change some of APIP's default behaviors

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.