



Fee

**50,00 €**

Final exam only

# Course technical sheet

Full-Stack Web Development – Python, JavaScript and Java  
(frontend, backend, APIs and deployment)

Course code

**FULLSTACK\_LA**

Test duration

**60 min**

Passing score

**70%**

Issued

**27/05/2026**

## Executive summary

The course "Full-Stack Web Development – Python, JavaScript and Java" equips developers with the skills to create complete web applications by integrating frontend, backend, API management, and deployment technologies. The curriculum covers Python with Django, Flask, and FastAPI frameworks; JavaScript with Node.js, Express, and React; and Java with Spring Boot, providing a solid technical and practical foundation. The program emphasizes best development practices such as REST API design, application security aligned with OWASP Top 10, secure SDLC, DevSecOps, and containerization using Docker. It also focuses on SQL and NoSQL database design and implementing CI/CD pipelines for fast, stable releases. Through hands-on exercises and real-world scenarios, participants will develop skills to build scalable, maintainable applications with attention to performance, security, and quality. This course is suited for programmers aiming to expand their competencies in developing modern full-stack solutions consistent with professional standards.

## Certification process

- Registration or login to the Academy platform.
- Completion of the final course examination only. Any training or preparation may be completed externally or through other channels.
- The test questions refer to the objectives, skills and topics described in this technical sheet.
- Assessment of the result, possible validation and certificate issuance according to the rules applicable to the course.

## Important note

On Academy, candidates take only the final course examination. Any training or preparation activity may be delivered externally or through other channels. The test questions refer to the topics described in this technical sheet and in the course syllabus summary.

## Syllabus summary

Web development best practices: HTTP/REST, API design (OpenAPI) + OWASP Top 10 (Web Application Security) + Secure SDLC and DevSecOps + Database design (SQL/NoSQL) + CI/CD and containerization (Docker); stacks: Python (Django/Flask/FastAPI), JavaScript (Node.js/Express, React), Java (Spring Boot)

## Learning Objectives

- Gain advanced skills in full-stack web development using Python, JavaScript, and Java.
- Understand and apply RESTful API design and web security principles.

### Certification Bodies Management systems

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### Course technical sheet

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- Integrate DevSecOps methodologies and containerization techniques.

### Skills Acquired

- Frontend development with React and Next.js.
- Backend programming with Django, Flask, FastAPI, Spring Boot.
- Design and management of SQL and NoSQL databases.
- Implementation of CI/CD pipelines and Docker deployment.

### Target Audience

- Software developers seeking to deepen full-stack technologies.
- IT professionals aiming to update web development skills.

### Prerequisites

- Basic programming knowledge.
- Fundamental understanding of HTML, CSS, and JavaScript.

### Course Content

- Introduction to Python, JavaScript, Java, and frameworks.
- Frontend development: React, Vue, Next.js.
- Backend development: Django, Flask, FastAPI, Spring Boot.
- REST API design and OWASP Top 10 security.
- Relational and NoSQL databases.
- CI/CD, containerization, and deployment.

### Teaching Methodology

- Theoretical lessons, practical exercises, and case studies.
- Simulated real-life scenarios and troubleshooting.

### Assessment Method

- Theoretical and practical tests with 70% passing score.

### Duration

- 60 minutes of intensive training.

### Certification

- Paid certificate of completion (€50).

### Expected Outcomes

- Ability to design and develop full-stack applications adhering to industry standards.