TECHNICAL LEARNING AND ASSESSMENT DOSSIER

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

Price / certificate issuance
50,00 €
VAT excluded

Course code	Minimum duration	Final pass score	Dossier issue
FULLSTACK_LA	60 min	70%	28/11/2026

1. Course identity, purpose and scope

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.

This extended technical dossier describes the pathway as published in CIWZ Academy on the issue date. It consolidates purpose, references, learning architecture, module contents, assessment system, passing criteria and certificate conditions. It does not replace the official texts of the standards, laws, guidelines or schemes referenced.

2. Normative, regulatory and technical references

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)

References are used as the learning and assessment framework within the limits of published content and available sources. For professional application, the official and current versions of the referenced documents always prevail.

3. Learning architecture and assessment system

- minimum tracked time: 60 min
- active final-exam bank: 200 questions
- final exam: 30 questions selected from the bank
- passing threshold: 70%

- Direct access to the final assessment under the published rules for the exam-only pathway.
- Exam assembly from the active course bank and scoring against the published pass threshold.
- Recording of the result and, where applicable, request for the final certificate.

4. Official catalogue technical information

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.
- 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.

7. Assessment system, final exam and passing criteria

- The final assessment consists of 30 questions selected from the active course bank. The platform applies an anti-repetition logic for new attempts when the bank size allows it.
- Final question-bank size detected at generation time: 200 active questions.
- Published passing threshold for the course: 70%.
- Questions are intended to assess not only recall but also interpretation, application, evidence selection, scenario assessment and quality of decision-making, depending on the subject matter.

8. Tracking, learning continuity and session integrity

- Path status, completed modules and recorded time are managed server-side when the course uses the Academy learning mode.
- The platform allows the pathway to resume from the recorded point and retains the results of required checks.
- Assessment sessions may be subject to the integrity and proctoring controls enabled by the platform and described in the applicable usage rules.
- Technical and integrity events support assessment and do not replace professional judgement where human review is required.

9. Certificate, use and limitations

The CIWZ certificate, where provided by the pathway and requested after passing, records the result achieved in the stated CIWZ pathway or assessment. It does not automatically replace personnel certification, professional registration, statutory licence, legal qualification or credentials issued by third-party bodies where such requirements are imposed by the applicable scheme.

10. Commercial and tax conditions

- Price / certificate issuance: 50,00 € VAT excluded.
- UAE VAT is applied to UAE customers according to billing data and the applicable tax rules.
- Any specific commercial terms, agreements or corporate orders override the public price only when formally accepted by Certificato IWZ FZCO.

11. Dossier document control

- Document automatically generated by CIWZ Academy from the course data published at the time of the request.
- Course code: FULLSTACK_LA
- Document language: EN

- Generation date: 28/11/2026
- For normative and professional application, the current official sources and any applicable procedures/schemes prevail.