



Fee

**50,00 €**

Final exam only

# Course technical sheet

Introduction to Artificial Intelligence (AI) – Exam

Course code

**AI\_INTRO\_LA**

Test duration

**60 min**

Passing score

**70%**

Issued

**27/05/2026**

## Executive summary

The course "Introduction to Artificial Intelligence (AI) – Exam" provides a thorough overview of the theoretical and practical foundations of Artificial Intelligence. It covers key definitions and fields, including Machine Learning and Deep Learning. The curriculum explores knowledge representation, search and problem-solving techniques, along with basic logic and reasoning principles. The introduction to Machine Learning addresses both supervised and unsupervised methods, focusing on model evaluation using train/test splits, overfitting control, and performance metrics. Students also receive insights into neural networks and Deep Learning, supported by application examples in Natural Language Processing, Computer Vision, and recommender systems. The course discusses the ethical considerations, bias, privacy, and security issues related to AI usage. Finally, it presents main tools and typical workflows, covering datasets, preprocessing, training, and deployment. Passing the exam certifies understanding of core concepts and the ability to apply them to real-world business scenarios.

## 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

AI fundamentals: definitions and scope (AI, ML, DL) + knowledge representation + search and problem solving (uninformed/informed search) + basic logic and reasoning + introduction to Machine Learning (supervised/unsupervised) + model evaluation (train/test, overfitting, metrics) + overview of neural networks and Deep Learning + applications (NLP, Computer Vision, recommender systems) + ethics, bias, privacy and security + tools and workflow overview (datasets, preprocessing, training, deployment)

## Learning Objectives

Provide fundamental knowledge of Artificial Intelligence, understand Machine Learning models and

### Certification Bodies Management systems

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evaluation, and develop awareness of ethical and regulatory aspects.

### Skills Acquired

- Definitions and scope of AI, ML, and DL
- Search and problem-solving methodologies
- Basic logic and reasoning
- Supervised and unsupervised Machine Learning techniques
- Model evaluation and overfitting management
- Introductory knowledge of neural networks and Deep Learning
- Practical applications in NLP, Computer Vision, and recommender systems
- Analysis of ethics, bias, privacy, and security issues
- Preparation of AI workflows: datasets, preprocessing, training, deployment

### Target Audience

Professionals, students, and enthusiasts interested in AI fundamentals and passing a related certification exam.

### Prerequisites

Basic knowledge of computer science and statistics; familiarity with elementary mathematical concepts.

### Program

- Fundamentals of AI, ML, and DL
- Knowledge representation
- Uninformed and informed search
- Logic and reasoning
- Machine Learning: supervised and unsupervised
- Model evaluation: train/test, overfitting, metrics
- Introduction to neural networks and Deep Learning
- Practical applications
- Ethical and security issues
- AI workflows and tools

### Teaching Methodology

Lectures, verification exercises, case studies, and simulated exam questions to reinforce learning.

### Assessment Method

60-minute exam with passing required at 70% correct answers.

**Duration**

60 minutes (exam).

**Certification**

Certificate of exam passing available upon payment of certification fee.

**Expected Outcomes**

Ability to understand and distinguish fundamental AI concepts and apply them in practical contexts with attention to risks and ethical implications.