



# Course technical sheet

Data Science & Big Data – Exam

Fee

**150,00 €**

Final exam only

Course code

**DSBD\_LA**

Test duration

**60 min**

Passing score

**70%**

Issued

**27/05/2026**

## Executive summary

The "Data Science & Big Data – Exam" course is designed to provide in-depth and practical training in analyzing large-scale data using advanced tools. The program covers programming languages such as Python and SQL, essential for data manipulation and analysis. Participants will gain skills in data cleaning, preparation, and exploratory data analysis (EDA), alongside foundational statistics and data visualization techniques to aid result interpretation. The course also introduces key Big Data ecosystem tools, including Spark and Hadoop, and essential concepts related to data warehouses and data lakes. Emphasis is placed on data governance and quality, critical for ensuring reliability and compliance in analyses. The curriculum culminates in an exam featuring complex practical cases like clickstream analysis, multi-source data normalization, data drift management, and quality monitoring, with a focus on current topics such as privacy by design, MLOps, and streaming data handling. This training is aimed at professionals and aspiring data scientists seeking to strengthen their technical and operational competencies in the Big Data field.

## 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

Large-scale data analysis (Big Data) + learning paths on Python and SQL + data cleaning and preparation + exploratory data analysis (EDA) + basic statistics + data visualization + overview of Big Data tools (e.g., Spark/Hadoop) and data warehouse/lake + data governance/quality

## Learning Objectives

- Provide advanced skills in data science and big data analytics.
- Develop practical abilities in Python and SQL.

### Certification Bodies Management systems

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- Learn data cleaning, EDA, and visualization methods.
- Understand Big Data tools such as Spark and Hadoop.
- Deepen knowledge of data governance and quality.

### Skills Acquired

- Manipulating and analyzing large datasets.
- Data preparation and cleaning.
- Applying basic statistical techniques.
- Using data warehouses and data lakes.
- Monitoring data quality and management.

### Target Audience

- IT professionals.
- Data analysts and aspiring data scientists.
- Experts interested in applied Big Data.

### Prerequisites

- Basic programming knowledge.
- Familiarity with database concepts.

### Program

- Python and SQL for Big Data.
- Data cleaning and preparation.
- Exploratory Data Analysis (EDA).
- Basic statistics.
- Data visualization.
- Big Data tools: Spark, Hadoop.
- Data warehouses and data lakes.
- Data governance and quality.

### Teaching Methodology

- Theoretical lessons.
- Practical exercises.
- Case studies and examinations.

### Assessment Method

- Final written exam with practical cases.

- Passing score of at least 70%.

**Duration**

- 60-minute final exam.

**Certification**

- Completion certificate (fee applies).

**Expected Outcomes**

- Ability to handle Big Data projects.
- Strong technical and operational preparation for complex analyses.