Data is ubiquitous in modern economy. From flight test data to financial reports, from web-based content to scientific computation results, sources of data are heterogeneous, flow at different speeds and vary in volume. The first step in an efficient data-driven business model is the definition of a strong data integration framework, able to cover all the useful data sources, to manage them over time, to report on data quality and to efficiently explore and visualize their contents.

**Prerequisites**
- General knowledge on computer science.
- Work experience in a professional environment.

**Learning objectives**
After completing this course, participants will be able to:
- Explain the key components of ETL-based data warehousing;
- Set up indicators on data quality and management;
- Perform a simple data visualization task.

**Key elements**
- **Dates:** 4 - 7 November 2019
- **Duration:** 28 hours, 4 days
- **For whom:** recent graduates, jobseekers and experienced employees
- **Location:** ISAE-SUPAERO, Toulouse
- **Course fees:** 2 300 €
- **Language:** English

**Highlights**
- Data warehousing and visualisation
- Data quality management
- Practical courses

**Practical information and registration**
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Course Content

Data Warehousing:
- History and recent evolutions
- Extract-Transform-Load process
- Architecture
- Key functions
- Layers

Data quality:
- Indicators
- improvement
- assurance
- control

Data visualisation:
- visual perception
- effective graphical display
- tools