

PARTICIPANTS

language is a plus.

Developers, project managers,

decision-making IT consultants, database administrators. **PREREQUISITES**

Good knowledge of RDBMs and SQL. Knowledge of the Java

TRAINER QUALIFICATIONS The experts leading the training are specialists in the covered subjects. They have been approved by our

instructional teams for both their professional knowledge and their

teaching ability, for each course

field and hold (or have held)

decision-making positions in

ASSESSMENT TERMS The trainer evaluates each participant's academic progress

throughout the training using

Participants also complete a

on work and more

developed.

multiple choice, scenarios, hands-

placement test before and after the

course to measure the skills they've

companies.

they teach. They have at least five to ten years of experience in their

Talend Open Studio: Implementing Data Integration

Hands-on course of 3 days - 21h Ref.: TOT - Price 2025: 2 180 (excl. taxes)

The price for the 2026 session dates may be revised

Talend Open Studio (TOS) is a free, open-source ETL application designed for large-scale data synchronization between databases. This training course will teach you how to design, model, and develop TOS "jobs" to address a wide range of integration challenges. Please note: this course focuses exclusively on Talend Open Studio (the free, community, open-source version). It does not cover the commercial Talend Studio edition, which is subscription-based and integrated into the Qlik-Talend Cloud portal.

EDUCATIONAL OBJECTIVES

At the end of the training, the trainee will be able to:

Design and develop jobs in the application ETL Talend

Optimize the jobs developed by using contexts and datasets.

Carrying out more complex transformations by using variables, expressions, and joins

Execute and debug a job, track execution statistics

TEACHING METHODS

Theoretical contributions illustrated with example implementations, then projects.

HANDS-ON WORK

Series of mini-projects used to design increasing elaborate Talend jobs.

consolidated by creating mini-Talend

TEACHING AIDS AND TECHNICAL RESOURCES

- · The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- · At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- · A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at pshaccueil@ORSYS.fr to review your request and its feasibility.

THE PROGRAMME

last updated: 09/2025

1) Presentation

- Data integration ETL solutions.
- TOS: Installation, user preferences. Reference documentation.
- Product philosophy. Designing a job.

Hands-on work: Getting started with the tool. Overview of the specifications of the generic project.

2) Model the need, design a first job

- Business Modeler. Job Designer.
- Main connections. CSV and XML components.
- Simple transformation components.
- Viewing the generated code, executing a job.

Exercise: Developing a job that sorts a CSV source, filtering data, and storing the result in an XML file.

3) Optimize job development

- Configuring reusable connections using metadata.
- Updating the metadata and propagating it to jobs, importing/exporting metadata.
- Configuring jobs with contexts.
- Externalizing context variables in ".properties" and ".ini" files.
- Creating and managing your own variables.



- Generating data sets for tests.

Exercise: Refactoring a job using metadata and contexts. Generating a test data set for this job.

4) Working with databases

- Supported databases and main components.
- Configuring operations on tables.
- Metadata and context of connecting to a database schema.
- Sharing connections and managing transactions.
- Creating queries using SQLBuilder.

Exercise: Reading and updating a data repository hosted on a MySQL server.

5) Working with multisource data

- Overview of the tMap component.
- Configuring input flows, creating joins.
- Carrying out more transformations using variables, expressions and joins.
- Qualifying data using filters.
- Generating multiple outputs, managing rejects.

Exercise: Consolidating multisource data and generating a warehouse.

6) Add-ons

- Breaking a job down into sub-jobs, using tRunJob. Launching jobs in the command line. Periodic execution.
- Debugging a job, tracking execution statistics
- tJasperOutput reporting.

Exercise: Generating a Jasper Report from a warehouse.

DATES

REMOTE CLASS

2025 : 15 déc.

2026: 25 mars, 18 mai, 14 oct.,

02 déc.