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Register

# Talaxie training

3 days (21 hours)

## Overview

**Talaxie** is a modern data integration and transformation platform designed as an agile alternative to traditional ETL/ELT tools.

With its pipeline-oriented architecture, multiple connectors, and optimized execution engine, Talaxie simplifies the processing and orchestration of large-scale data flows.

Our Talaxie training will enable you to master the creation, transformation, and supervision of robust pipelines. You will be able to connect your sources, automate your processing, optimize your performance, and deploy industrialized workflows adapted to modern data architectures.

By the end of the training, you will be able to integrate Talaxie into your DataOps workflows, ensure the governance and security of flows, monitor your pipelines in production, and gradually migrate from Talend or another ETL.

## Objectives

- Master the fundamentals of Talaxie.
- Create and orchestrate complete pipelines.
- Ensure data security and quality.
- Industrialize workflows and optimize performance.
- Integrate Talaxie into a CI/CD or DataOps chain.
- Migrate efficiently from Talend.

## Target audience

- Data Engineers
- Data/Backend Developers

- Data Architects
- DataOps / ETL Engineers

## Prerequisites

- Basic data manipulation skills
- Knowledge of SQL or APIs
- Cloud concepts recommended

## Talaxie training program

[Day 1 - Morning]

### Introduction to Talaxie and ETL/ELT positioning

- Overview of modern ETL/ELT solutions and Talaxie's position in the market
- Key concepts: data integration, ingestion, transformation, workflow
- General architecture: engine, connectivity, data models
- Positioning relative to Talend, NiFi, Airflow
- Typical use cases: migration, synchronization, data pipelines
- Hands-on workshop: Installation and introduction to the Talaxie interface.

[Day 1 - Afternoon]

### Internal architecture and flow management

- Internal functioning of the Talaxie engine
- Connector and driver management
- Handling schemas, formats, serialization
- Differences between batch and streaming
- Optimizing flows for large datasets
- Hands-on workshop: Building a simple ingestion + transformation pipeline.

### Modeling, transformations, and data quality

- Transformation blocks: mapping, enrichment, filtering
- Error management, rejections, and execution logs
- Data governance and traceability principles
- Best practices for ETL modeling
- Structuring multi-step pipelines
- Hands-on workshop: Implementing a complete pipeline with logs and validation.

[Day 2 - Morning]

## Security, governance, and access management

- Talaxie permissions model
- Management of roles, secrets, tokens, and encrypted connections
- GDPR compliance and anonymization
- Best practices for accessing sensitive environments
- Monitoring and audit trail
- Hands-on workshop: Implementing a multi-team permissions model.

### [Day 2 - Afternoon]

## Scheduling, performance, and industrialization

- Scheduled execution: triggers, schedules, events
- Performance optimization: parallelization, partitions, tuning
- Load management and scalability
- Execution monitoring: logs, alerts, and metrics
- Integration into a comprehensive enterprise pipeline
- Hands-on workshop: Optimizing an existing pipeline and performance analysis.

## CI/CD, automation, and DevOps integration

- Integration with Git, versioning, and best practices
- Multi-environment deployment: dev, testing, production
- Automation via CLI/API Talaxie
- Integration into CI/CD: GitLab CI, GitHub Actions, Jenkins
- DevOps patterns for data pipelines
- Hands-on workshop: Building a CI/CD deployment pipeline Talaxie

### [Day 3 - Morning]

## Advanced connectors and cloud integration

- Cloud connectors (AWS, GCP, Azure, etc.)
- Database connectors: PostgreSQL, MongoDB, Elastic, Snowflake, etc.
- Connecting to external APIs
- Managing complex authentication
- Best practices for heterogeneous integration
- Hands-on workshop: Creating an automated pipeline from a cloud source to a data warehouse.

### [Day 3 - Afternoon]

## Advanced use cases and enterprise patterns

- Microservices-oriented pipelines
- Patterns: CDC, analytical ELT, business orchestration
- Structuring a DataOps architecture based on Talaxie
- Cost reduction and FinOps in pipelines
- Development of a centralized repository
- Hands-on workshop: Implementation of a complete business use case

## Migration, long-term operation, and operational runbook

- Migration methodology from Talend
- Job conversion, redesign, automation
- Production launch: checklist, testing, SLA, SLO
- SRE runbook: alerting, diagnostics, recovery
- Best practices for maintenance and scalability
- Hands-on workshop: Migrating an existing Talend job to Talaxie.

## Target companies

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific business knowledge or modern methods.

## Positioning at the start of training

The positioning at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

## Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training course.