



Fundamentals of a Data Stack Course

Build the modern data infrastructure that powers data-driven companies.

Certificate Course | A15

Duration: 24 hours

Level: Intermediate



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DATA ACADEMY

WHAT YOU'LL LEARN

- Design and explain a complete modern data stack architecture
- Set up a basic ELT pipeline using Airbyte and a cloud warehouse
- Use dbt to transform, test, and document data models
- Understand the role of each tool: ingestion, storage, transformation, BI
- Compare legacy ETL with modern ELT approaches
- Deploy a working data stack on Snowflake or BigQuery



COURSE CONTENT

Module 1 — The Modern Data Stack

- Overview of key tools: Fivetran, Airbyte, dbt, Snowflake, Power BI
- How data teams are structured and how they work

Module 2 — Data Ingestion & Storage

- ETL vs ELT: when to use which approach
- Data warehouses vs data lakes vs lakehouses

Module 3 — Data Transformation with dbt

- Introduction to dbt: models, tests, and documentation
- Version control and CI/CD for data pipelines



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AFTER THIS COURSE

You'll have a working data stack you built yourself — the practical foundation for a data engineering career.

OFFICIAL CERTIFICATE

This course leads to an official ADA certificate at NLQF level 6, the nationally recognised qualification framework equivalent to a bachelor's degree. Your certificate proves a verified, professional level of knowledge and skills — valued by employers across the Netherlands.

Ready for your next step?
Book a free study-advice call
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