

Welcome to Data Engineering with Databricks



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Course goals

- 1 Perform common code development tasks in a data engineering workflow using the Databricks **Data Science & Engineering Workspace**.
- 2 Use **Spark** to extract data from a variety of sources, apply common cleaning transformations, and manipulate complex data to load into **Delta Lake**.
- 3 Define and schedule data pipelines that incrementally ingest and process data through multiple tables in the lakehouse using **Delta Live Tables**.
- 4 Orchestrate data pipelines with Databricks **Workflow Jobs** and schedule dashboard updates to keep analytics up-to-date.
- 5 Configure permissions in **Unity Catalog** to ensure that users have proper access to databases for analytics and dashboarding.



Course overview

Module 1: Get Started with Databricks Data Science and Engineering Workspace

Module 2: Transform Data with Spark (SQL/PySpark)

Module 3: Manage Data with Delta Lake

Module 4: Build Data Pipelines with Delta Live Tables (SQL/PySpark)

Module 5: Deploy Workloads with Databricks Workflows

Module 6: Manage Data Access for Analytics with Unity Catalog

Agenda

Module Name	Duration
Get Started with Databricks Data Science and Engineering Workspace	1 hour, 20 min
Transform Data with Spark (SQL/PySpark)	2 hours, 50 min
Manage Data with Delta Lake	1 hour, 30 min
Build Data Pipelines with Delta Live Tables (SQL/PySpark)	3 hours
Deploy Workloads with Databricks Workflows	1 hour, 10 min
Manage Data Access for Analytics with Unity Catalog	2 hours

- We will take 10 minute breaks about every hour

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[Databricks Academy](https://www.databricks.com/learn/training/home)

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