

MICROSOFT OFFICIAL CURRICULUM

Microsoft

DP-3011

Implement a Data Analytics Solution with Azure Databricks

Official Microsoft Learn-aligned instructor-led program for Implement a Data Analytics Solution with Azure Databricks.

Data

Intermediate

Azure

DURATION
1 day

LEVEL
Intermediate

FORMAT
Virtual, On-site, or Hybrid

CERTIFICATION
DP-3011

AUDIENCE PROFILE

Built for these roles

Before taking this course, learners should already be comfortable with the fundamentals of Python and SQL. This includes being able to write simple Python scripts and work with common data structures, as well as writing SQL queries to filter, join, and aggregate data. A basic understanding of common file formats such as CSV, JSON, or Parquet will also help when working with datasets. In addition, familiarity with the Azure portal and core services like Azure Storage is important, along with a general awareness of data concepts such as batch versus streaming processing and structured versus unstructured data. While not mandatory, prior exposure to big data frameworks like Spark, and experience working with Jupyter notebooks, can make the transition to Databricks smoother.

OVERVIEW

Executive overview

This course explores how to use Databricks and Apache Spark on Azure to take data projects from exploration to production. You'll learn how to ingest, transform, and analyze large-scale datasets with Spark DataFrames, Spark SQL, and PySpark, while also building confidence in managing distributed data processing. Along the way, you'll get hands-on with the Databricks workspace—navigating clusters and creating and optimizing Delta tables. You'll also dive into data engineering practices, including designing ETL pipelines, handling schema evolution, and enforcing data quality. The course then moves into orchestration, showing you how to automate and manage workloads with Lakeflow Jobs and pipelines. To round things out, you'll explore governance and security capabilities such as Unity Catalog and Purview integration, ensuring you can work with data in a secure, well-managed, and production-ready environment.

PROGRAM OUTCOMES

Capabilities your teams will gain

- Strengthen capability in data scenarios
- Strengthen capability in azure scenarios
- Strengthen capability in role-based scenarios

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ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Builds current Microsoft credential readiness for Implement a Data Analytics Solution with Azure Databricks using the official Microsoft Learn outline.

Customization options

- Align labs to your production environment and platform priorities
- Add readiness reviews and instructor-led practice sessions
- Extend into project-specific architecture or delivery coaching

CURRICULUM

Curriculum roadmap

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MODULE 1

Implement a Data Analytics Solution with Azure Databricks

Implement a Data Analytics Solution with Azure Databricks. (DP-3011)

- Explore Azure Databricks
- Perform data analysis with Azure Databricks
- Use Apache Spark in Azure Databricks
- Manage data with Delta Lake
- Build Lakeflow Declarative Pipelines
- Deploy workloads with Lakeflow Jobs

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

[Plan Private Delivery](#)

[Book advisory call](#)

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