

Training: Microsoft
DP-3011: Implement a Data Analytics Solution with Azure Databricks

Microsoft
Partner

TRAINING GOALS:

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. 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.

Audience Profile:

Before taking this course, learners should already be comfortable with the fundamentals of Python and SQL. 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.

CONSPECT:

- Implement a Data Analytics Solution with Azure Databricks
 - Module 1: Explore Azure Databricks
 - Module 2: Perform data analysis with Azure Databricks
 - Module 3: Use Apache Spark in Azure Databricks
 - Module 4: Manage data with Delta Lake
 - Module 5: Build Lakeflow Declarative Pipelines
 - Module 6: Deploy workloads with Lakeflow Jobs

REQUIREMENTS:

Comfortable with fundamentals of Python and SQL. Ability to write simple Python scripts, work with common data structures, and write SQL queries to filter, join, and aggregate data. Basic understanding of common file formats (CSV, JSON, Parquet). Familiarity with Azure portal and core services like Azure Storage. Awareness of data concepts (batch vs streaming, structured vs unstructured data).

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Microsoft (course completion).

TRAINER:

Microsoft Certified Trainer (MCT)