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## DP-3011 Implementing a Data Analytics Solution with Azure Databricks

### Overview

**Course Duration:** 5 Hours

### About This Course

Learn how to harness the power of Apache Spark and powerful clusters running on the Azure Databricks platform to run data analytics workloads in a data lakehouse.

### Course Outline

#### Module 1: Explore Azure Databricks.

- Get started with Azure Databricks.
- Identify Azure Databricks workloads.
- Understand key concepts.
- Exercise - Explore Azure Databricks.

#### Module 2: Use Apache Spark in Azure Databricks.

- Get to know Spark.
- Create a Spark cluster.
- Use Spark in notebooks.
- Use Spark to work with data files.
- Visualize data.
- Exercise - Use Spark in Azure Databricks

#### Module 3: Use Delta Lake in Azure Databricks.

- Get Started with Delta Lake.
- Create Delta Lake tables.
- Create and query catalog tables.
- Use Delta Lake for streaming data.
- Exercise - Use Delta Lake in Azure Databricks.

#### Module 4: Use SQL Warehouses in Azure Databricks.

- Get started with SQL Warehouses.
- Create databases and tables.
- Create queries and dashboards.
- Exercise - Use a SQL Warehouse in Azure Databricks.

#### Module 5: Run Azure Databricks Notebooks with Azure Data Factory.

- Understand Azure Databricks notebooks and pipelines.
- Create a linked service for Azure Databricks.
- Use a Notebook activity in a pipeline.
- Use parameters in a notebook.
- Exercise - Run an Azure Databricks Notebook with Azure Data Factory.