

KOENIG SOLUTIONS · COURSE OUTLINE

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

Learn to build data analytics solutions with Azure Databricks, using Spark, Delta Lake, SQL Warehouses and Data Factory pipelines.

5

MODULES

18

TOPICS

COURSE OVERVIEW

This course covers provisioning an Azure Databricks workspace and understanding its core workloads, personas and concepts. It then addresses using Apache Spark within Azure Databricks to configure clusters, process files and visualise data. The course also covers Delta Lake tables, including their creation, cataloguing and use with streaming data, followed by configuring SQL Warehouses to build databases, tables, queries and dashboards. It concludes with running Azure Databricks notebooks in Azure Data Factory pipelines, including linked services, notebook activities and parameter passing.

WHO THIS COURSE IS FOR

Data Engineers

Data Analysts

BI Developers

Solution Architects

Database Administrators

LEARNING OBJECTIVES

- Provision and configure an Azure Databricks workspace
- Explain core workloads, personas and concepts of Azure Databricks
- Describe the Apache Spark architecture and configure Spark clusters
- Apply Spark to process, analyse and visualise data in files
- Describe core features of Delta Lake and create Delta Lake tables
- Create Spark catalog tables and stream data with Delta Lake
- Configure SQL Warehouses and build databases, queries and dashboards
- Implement Azure Databricks notebooks within Azure Data Factory pipelines

5 Modules, 18 Topics

01

Explore Azure Databricks

TOPICS

- Provision an Azure Databricks workspace
- Identify core workloads and personas for Azure Databricks
- Describe key concepts of an Azure Databricks solution

02

Use Apache Spark in Azure Databricks

TOPICS

- Describe key elements of the Apache Spark architecture
- Create and configure a Spark cluster
- Use Spark to process and analyze data stored in files
- Use Spark to visualize data

03

Use Delta Lake in Azure Databricks

TOPICS

- Describe core features and capabilities of Delta Lake
- Create and use Delta Lake tables in Azure Databricks
- Create Spark catalog tables for Delta Lake data
- Use Delta Lake tables for streaming data

04

Use SQL Warehouses in Azure Databricks

TOPICS

- Create and configure SQL Warehouses in Azure Databricks
- Create databases and tables
- Create queries and dashboards

05

Run Azure Databricks Notebooks with Azure Data Factory

TOPICS

- Describe how Azure Databricks notebooks can be run in a pipeline
- Create an Azure Data Factory linked service for Azure Databricks
- Use a Notebook activity in a pipeline
- Pass parameters to a notebook

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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