

Microsoft Azure Technical Workshop: Implement a Data Lakehouse Analytics Solution with Azure Databricks

Duration : 1 day

Course Content :

Module 01 : Explore Azure Databricks

- Introduction
- Get started with Azure Databricks
- Identify Azure Databricks workloads
- Understand key concepts
- Data governance using Unity Catalog and Microsoft Purview
- Lab - Explore Azure Databricks

Module 02 : Perform data analysis with Azure Databricks

- Introduction
- Ingest data with Azure Databricks
- Data exploration tools in Azure Databricks
- Data analysis using DataFrame APIs
- Lab - Explore data with Azure Databricks

Module 03 : Use Apache Spark in Azure Databricks

- Introduction
- Get to know Spark
- Create a Spark cluster
- Use Spark in notebooks
- Use Spark to work with data files
- Visualize data
- Lab - Use Spark in Azure Databricks4

Module 04 : Manage data with Delta Lake

- Introduction
- Get started with Delta Lake
- Manage ACID transactions
- Implement schema enforcement
- Data versioning and time travel in Delta Lake
- Data integrity with Delta Lake
- Lab - Use Delta Lake in Azure Databricks

Module 05 : Build data pipelines with Delta Live Tables

- Introduction
- Explore Delta Live Tables
- Data ingestion and integration
- Real-time processing
- Lab - Create a data pipeline with Delta Live Tables

Module 06 : Deploy workloads with Azure Databricks Workflows

- Introduction
- What are Azure Databricks Workflows?
- Understand key components of Azure Databricks Workflows
- Explore the benefits of Azure Databricks Workflows
- Deploy workloads using Azure Databricks Workflows
- Lab - Create an Azure Databricks Workflow