

Microsoft Fabric Fundamentals

Course Description

This intensive 2-day program provides hands-on experience with Microsoft Fabric's core analytics capabilities, combined with practical Power BI reporting. Participants will learn how to design and manage lakehouses, ingest and process data using pipelines and Spark, and build secure, scalable data warehouses. The course introduces Power BI reporting for creating and sharing dashboards directly from Fabric, ensuring learners can deliver end-to-end analytics solutions. Administrative content is streamlined to focus only on essential security practices, keeping the emphasis on analytics and reporting.

Course Duration : 2 Days(16 hours)

Learning Objectives

By the end of this 2-day program, participants will be able to:

- **Understand Microsoft Fabric architecture** Gain a clear overview of Fabric's end-to-end analytics capabilities and how its components integrate.
- **Design and manage lakehouses** Create and organize lakehouses for structured and unstructured data storage.
- **Ingest and process data efficiently** Use Dataflows Gen2, Data Factory pipelines, and Apache Spark to ingest, transform, and process data.
- **Implement and operate data warehouses** Load, query, monitor, and secure data warehouses within Fabric.
- **Apply essential security practices** Manage roles, permissions, and row-level security to safeguard data access.
- **Build and share Power BI reports** Connect Power BI to Fabric lakehouses and warehouses, create simple dashboards, and share reports securely.
- **Leverage real-time intelligence** Implement real-time analytics solutions using Microsoft Fabric's streaming and monitoring capabilities.

Content Coverage

Day 1

- Course introduction
- Explore end-to-end analytics with Microsoft Fabric
- Get started with lakehouses
- Ingest data with Dataflows Gen2
- Use Data Factory pipelines
- Use Apache Spark
- Power BI Reporting Basics
 - Connecting to Fabric lakehouses and warehouses
 - Creating simple reports and dashboards

Day 2

- Recap & Q&A
- Get started with data warehouses in Microsoft Fabric
- Load data into a warehouse
- Query a data warehouse
- Monitor a data warehouse
- Secure a data warehouse (essentials only: roles, permissions, row-level security)
- Power BI Reporting in Practice
 - Visualizations and interactivity
 - Sharing reports securely in Fabric
- Get started with Real-Time Intelligence in Microsoft Fabric
- Course conclusion & wrap-up