

# Exploring Microsoft Fabric in a day

**Course Description:** This one-day training introduces Microsoft Fabric—a unified analytics platform that integrates data ingestion, storage, processing, and visualization. The course covers foundational concepts and walks through core components such as the Lakehouse architecture, Data Factory for ingestion and transformation, OneLake as a centralized storage layer, and Power BI for building reports on Fabric data. Designed for data professionals, this course emphasizes hands-on understanding and platform-wide integration.

**Duration :** 8 hours

**Learning Outcomes:** By the end of the course, participants will be able to:

- Describe the architecture and components of Microsoft Fabric
- Understand the role of Lakehouse and OneLake in unified storage
- Build simple pipelines for data ingestion and transformation using Data Factory
- Connect Power BI to Fabric and build basic dashboards
- Explain how Microsoft Fabric unifies workflows across engineering and analytics roles

**Content Coverage :**

## Module 1: Introduction to Microsoft Fabric

- What is Microsoft Fabric and why it matters
- Evolution from Azure Synapse and Power BI
- Components of the unified platform
- Role-specific benefits for engineers, analysts, and scientists

## Module 2: Lakehouse & OneLake – Core Concepts

- Lakehouse architecture overview
- Storage layers: bronze, silver, gold approach
- OneLake as the unified, multi-tenant storage
- Delta Tables: structure, versioning, and benefits

## Module 3: Data Factory Pipelines – Ingestion & Transformation

- Data Factory overview in Fabric
- No-code and low-code ingestion workflows
- Connecting to external structured/unstructured sources
- Dataflow activities and transformation basics
- Demo: Creating a basic pipeline for ingestion and cleanup

## Module 4: Power BI Dashboards – Visualization in Fabric

- Overview of Power BI integration with Fabric
- Connecting Power BI to Delta Tables
- Creating semantic models in Power BI
- Building simple dashboards over Lakehouse data
- Demo: Publish and share a Fabric-connected report