Implementing a Lakehouse with Microsoft Fabric - Applied Skills Workshop Training

Duration: **1 Day**

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This one-day instructor-led course provides data professionals with the knowledge and practical skills required to implement and manage Lakehouse solutions using Microsoft Fabric. Aligned with the Microsoft DP-601 Applied Skills curriculum, the course focuses on building, ingesting, transforming and analysing data within Microsoft Fabric Lakehouses using Apache Spark, Delta Lake and Fabric data integration tools.

Through a combination of instructor-led learning and hands-on labs, learners explore Lakehouse architecture, Apache Spark, Delta Lake tables, Dataflows Gen2, Data Factory Pipelines and Medallion Architecture. By the end of the course, participants will be able to confidently implement and manage Microsoft Fabric Lakehouses that support scalable analytics workloads.

Prerequisites

Participants should have:

- A basic understanding of data analytics and business intelligence concepts.
- Experience working with relational databases and SQL.
- Familiarity with Microsoft Fabric concepts is recommended.
- An understanding of data transformation and modelling concepts.
- Experience with cloud-based data platforms is beneficial.

Target audience

This course is designed for:

- Data engineers implementing Microsoft Fabric solutions.
- Analytics engineers working with enterprise data platforms.
- Data professionals working with analytical and engineering workloads.
- Data analysts looking to develop Microsoft Fabric Lakehouse skills.
- Professionals preparing for the Microsoft Applied Skills credential: Implement a Lakehouse with Microsoft Fabric.

What You Will Learn

By the end of this course, learners will be able to:

- Create and manage Microsoft Fabric Lakehouses.
- Ingest and prepare data using Dataflows Gen2 and Data Factory Pipelines.
- Process and analyse data using Apache Spark, Spark SQL and Spark notebooks.
- Create, manage and optimise Delta Lake tables.
- Implement data transformation and orchestration workflows within Microsoft Fabric.
- Apply Microsoft Fabric best practices when implementing and managing Lakehouse solutions.