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**Learning Style: Virtual Classroom**

**Technology: Microsoft**

**Difficulty: Intermediate**

**Course Duration: 4 Days**

# Microsoft Fabric Data Engineer (DP-700)

## About This Course:

This course covers methods and practices to implement data engineering solutions by using Microsoft Fabric. Students will learn how to design and develop effective data loading patterns, data architectures, and orchestration processes. Objectives for this course include ingesting and transforming data and securing, managing, and monitoring data engineering solutions. This course is designed for experienced data professionals skilled at data integration and orchestration, such as those with

the DP-203: Azure Data Engineer certification.

## Course Objectives:

- Connecting to various data sources
- Extract, transform, and load (ETL) processes using Dataflows and Pipelines
- Implementing Lakehouses & Warehouses
- Using OneLake storage for efficient data management
- Security best practices: Access control, encryption
- Implementing indexing, partitioning, and caching
- Monitoring query performance and optimizing data models
- Connecting Fabric data to Power BI for analysis and reporting
- Using AI-powered insights for data processing

## Audience:

This audience for this course is data professionals with experience in data extraction, transformation, and loading. DP-700 is designed for professionals who need to create and deploy data engineering solutions using Microsoft Fabric for enterprise-scale data analytics. Learners should also have experience at manipulating and transforming data with one of the following programming languages: Structured Query Language (SQL), PySpark, or Kusto Query Language (KQL).

## Prerequisites:

- Familiarity with SQL, ETL processes, and data modeling
- Knowledge of Azure Data Services & Power BI is beneficial

## Course Outline:

- **Ingest Data with Dataflows Gen2 in Microsoft Fabric**
- **Orchestrate processes and data movement with Microsoft**

**Fabric**

- **Get started with Real-Time Intelligence in Microsoft Fabric**
- **Use real-time eventstreams in Microsoft Fabric**
- **Work with real-time data in a Microsoft Fabric eventhouse**
- **Introduction to end-to-end analytics using Microsoft Fabric**
- **Get started with lakehouses in Microsoft Fabric**
- **Use Apache Spark in Microsoft Fabric**
- **Work with Delta Lake tables in Microsoft Fabric**
- **Organize a Fabric lakehouse using medallion architecture design**
- **Create Real-Time Dashboards with Microsoft Fabric**
- **Get started with data warehouses in Microsoft Fabric**
- **Load data into a Microsoft Fabric data warehouse**
- **Query a data warehouse in Microsoft Fabric**
- **Monitor a Microsoft Fabric data warehouse**
- **Secure a Microsoft Fabric data warehouse**
- **Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric**
- **Monitor activities in Microsoft Fabric**
- **Secure data access in Microsoft Fabric**
- **Administer a Microsoft Fabric environment**