# Microsoft Fabric Data Engineer

## Overview

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

his course includes 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.

## Audience Profile

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).

## Course Syllabus (It contains 5 Module)

I. **Ingest data with Microsoft Fabric**
II. **Implement a Lakehouse with Microsoft Fabric**
III. **Implement Real-Time Intelligence with Microsoft Fabric**
IV. **Implement a data warehouse with Microsoft Fabric**
V. **Manage a Microsoft Fabric environment**

# I. Ingest data with Microsoft Fabric

## It contains again 6 Modules:

1) **Ingest Data with Dataflows Gen2 in Microsoft Fabric**
2) **Orchestrate processes and data movement with Microsoft Fabric**
3) **Use Apache Spark in Microsoft Fabric**
4) **Get started with Real-Time Intelligence in Microsoft Fabric**
5) **Use real-time eventstreams in Microsoft Fabric**
6) **Work with real-time data in a Microsoft Fabric eventhouse**

## II. Implement a Lakehouse with Microsoft Fabric

1) Introduction to end-to-end analytics using Microsoft Fabric
2) Get started with Lakehouse in Microsoft Fabric
3) Use Apache Spark in Microsoft Fabric
4) Work with Delta Lake tables in Microsoft Fabric
5) Ingest Data with Dataflows Gen2 in Microsoft Fabric
6) Orchestrate processes and data movement with Microsoft Fabric
7) Organize a Fabric Lakehouse using medallion architecture design

## III. Implement Real-Time Intelligence with Microsoft Fabric

1) Get started with Real-Time Intelligence in Microsoft Fabric
2) Use real-time eventstreams in Microsoft Fabric
3) Work with real-time data in a Microsoft Fabric eventhouse
4) Create Real-Time Dashboards with Microsoft Fabric

## IV. Implement a data warehouse with Microsoft Fabric

1) Introduction to end-to-end analytics using Microsoft Fabric
2) Get started with data warehouses in Microsoft Fabric
3) Load data into a Microsoft Fabric data warehouse
4) Query a data warehouse in Microsoft Fabric
5) Monitor a Microsoft Fabric data warehouse
6) Secure a Microsoft Fabric data warehouse

## V. Manage a Microsoft Fabric environment

1) Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric
2) Monitor activities in Microsoft Fabric
3) Secure data access in Microsoft Fabric
4) Administer a Microsoft Fabric environment

## Skills earned upon completion

- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Use Apache Spark in 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**
- **Explore end-to-end analytics with Microsoft Fabric**
- **Get started with Lakehouse in Microsoft Fabric**
- **Use Apache Spark in Microsoft Fabric**
- **Work with Delta Lake tables in Microsoft Fabric**
- **Use real-time eventstreams in Microsoft Fabric**
- **Create Real-Time Dashboards with Microsoft Fabric**
- **Secure a Microsoft Fabric data warehouse**
- **Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric**
- **Monitor activities in Microsoft Fabric**
- **Administer a Microsoft Fabric environment**