

# IMPLEMENTING A LAKEHOUSE WITH MICROSOFT FABRIC (DP-601T00)

Course Code: 834005

This course introduces the foundational components of implementing a data lakehouse with Microsoft Fabric.

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## What You'll Learn

Students will learn,

- 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
- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Organize a Fabric lakehouse using medallion architecture design

## Who Needs to Attend

The primary audience for this course is data professionals who are familiar with data modeling, extraction, and analytics. It is designed for professionals who are interested in gaining knowledge about Lakehouse architecture, the Microsoft Fabric platform, and how to enable end-to-end analytics using these technologies.

## Prerequisites

You should be familiar with basic data concepts and terminology.

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CLASSROOM LIVE

\$675 USD

1 Day

## Classroom Live Outline

### **Module 1: Introduction to end-to-end analytics using Microsoft Fabric**

- Explore end-to-end analytics with Microsoft Fabric
- Data teams and Microsoft Fabric
- Enable and use Microsoft Fabric

### **Module 2: Get started with lakehouses in Microsoft Fabric**

- Explore the Microsoft Fabric lakehouse
- Work with Microsoft Fabric lakehouses
- Explore and transform data in a lakehouse
- Exercise - Create a Microsoft Fabric lakehouse

### **Module 3: Use Apache Spark in Microsoft Fabric**

- Prepare to use Apache Spark
- Run Spark code
- Work with data in a Spark dataframe
- Work with data using Spark SQL
- Visualize data in a Spark notebook
- Exercise - Analyze data with Apache Spark

### **Module 4: Work with Delta Lake tables in Microsoft Fabric**

- Understand Delta Lake
- Create delta tables
- Optimize delta tables
- Work with delta tables in Spark
- Use delta tables with streaming data
- Exercise - Use delta tables in Apache Spark

### **Module 5: Ingest Data with Dataflows Gen2 in Microsoft Fabric**

- Understand Dataflows Gen2 in Microsoft Fabric
- Explore Dataflows Gen2 in Microsoft Fabric
- Integrate Dataflows Gen2 and Pipelines in Microsoft Fabric
- Exercise - Create and use a Dataflow Gen2 in Microsoft Fabric

#### **Module 6: Orchestrate processes and data movement with Microsoft Fabric**

- Understand pipelines
- Use the Copy Data activity
- Use pipeline templates
- Run and monitor pipelines
- Exercise - Ingest data with a pipeline

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VIRTUAL CLASSROOM LIVE

\$675 USD

1 Day

## Virtual Classroom Live Outline

### **Module 1: Introduction to end-to-end analytics using Microsoft Fabric**

- Explore end-to-end analytics with Microsoft Fabric
- Data teams and Microsoft Fabric
- Enable and use Microsoft Fabric

### **Module 2: Get started with lakehouses in Microsoft Fabric**

- Explore the Microsoft Fabric lakehouse
- Work with Microsoft Fabric lakehouses
- Explore and transform data in a lakehouse
- Exercise - Create a Microsoft Fabric lakehouse

### **Module 3: Use Apache Spark in Microsoft Fabric**

- Prepare to use Apache Spark
- Run Spark code
- Work with data in a Spark dataframe
- Work with data using Spark SQL
- Visualize data in a Spark notebook
- Exercise - Analyze data with Apache Spark

### **Module 4: Work with Delta Lake tables in Microsoft Fabric**

- Understand Delta Lake
- Create delta tables
- Optimize delta tables
- Work with delta tables in Spark
- Use delta tables with streaming data
- Exercise - Use delta tables in Apache Spark

### **Module 5: Ingest Data with Dataflows Gen2 in Microsoft Fabric**

- Understand Dataflows Gen2 in Microsoft Fabric
- Explore Dataflows Gen2 in Microsoft Fabric
- Integrate Dataflows Gen2 and Pipelines in Microsoft Fabric
- Exercise - Create and use a Dataflow Gen2 in Microsoft Fabric

#### **Module 6: Orchestrate processes and data movement with Microsoft Fabric**

- Understand pipelines
- Use the Copy Data activity
- Use pipeline templates
- Run and monitor pipelines
- Exercise - Ingest data with a pipeline



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PRIVATE GROUP TRAINING

1 Day

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