

KOENIG SOLUTIONS • COURSE OUTLINE

# Getting Started with Microsoft Fabric

Learn to build end-to-end analytics solutions in Microsoft Fabric, from lakehouses and Spark to pipelines and real-time intelligence.

**1 Day**

DURATION

**9**

MODULES

**33**

TOPICS

## COURSE OVERVIEW

This one-day course provides a comprehensive introduction to Microsoft Fabric's end-to-end analytics capabilities. Participants will learn how to create and manage lakehouses, use Apache Spark for data analysis, work with Delta Lake tables, orchestrate data processes with pipelines, and ingest data using Dataflows Gen2. The course also covers working with data warehouses, real-time intelligence, and administering a Microsoft Fabric environment.

## WHO THIS COURSE IS FOR

Data Engineers

Data Analysts

BI Developers

Fabric Administrators

Data Warehouse Developers

## PREREQUISITES

- Familiarity with basic data concepts and terminology.
- Understanding of fundamental data storage and analytics concepts.
- Prior experience with data engineering concepts and terminology is recommended

## LEARNING OBJECTIVES

- Describe end-to-end analytics capabilities in Microsoft Fabric
- Create and query lakehouses using SQL
- Use Spark dataframes and Spark SQL to transform data
- Create and optimise Delta Lake tables with Spark
- Orchestrate data movement using pipelines and Dataflows Gen2
- Compare data warehouses with lakehouses in Fabric
- Ingest, store and visualise real-time data
- Manage user access and govern data in Fabric

## 9 Modules, 33 Topics

01

### Introduction to End-to-End Analytics Using Microsoft Fabric

#### TOPICS

- Describe end-to-end analytics in Microsoft Fabric

02

### Get Started with Lakehouses in Microsoft Fabric

#### TOPICS

- Describe core features and capabilities of lakehouses in Microsoft Fabric
- Create a lakehouse
- Ingest data into files and tables in a lakehouse
- Query lakehouse tables with SQL

03

### Use Apache Spark in Microsoft Fabric

#### TOPICS

- Configure Spark in a Microsoft Fabric workspace
- Identify suitable scenarios for Spark notebooks and Spark jobs
- Use Spark dataframes to analyze and transform data
- Use Spark SQL to query data in tables and views
- Visualize data in a Spark notebook

04

### Work with Delta Lake Tables in Microsoft Fabric

#### TOPICS

- Understand Delta Lake and delta tables in Microsoft Fabric
- Create and manage delta tables using Spark
- Optimize delta tables
- Use Spark to query and transform data in delta tables
- Use delta tables with Spark structured streaming

**05**

## Orchestrate Processes and Data Movement with Microsoft Fabric

### TOPICS

- Describe pipeline capabilities in Microsoft Fabric
- Use the Copy Data activity in a pipeline
- Create pipelines based on predefined templates
- Run and monitor pipelines

**06**

## Ingest Data with Dataflows Gen2 in Microsoft Fabric

### TOPICS

- Describe Dataflow capabilities in Microsoft Fabric
- Create Dataflow solutions to ingest and transform data
- Include a Dataflow in a pipeline

**07**

## Get Started with Data Warehouses in Microsoft Fabric

### TOPICS

- Describe data warehouses in Fabric
- Understand a data warehouse vs a data Lakehouse
- Work with data warehouses in Fabric
- Create and manage fact tables and dimensions within a data warehouse

**08**

## Get Started with Real-Time Intelligence in Microsoft Fabric

### TOPICS

Ingest and transform real-time data · Store and query real-time data · Visualize real-time data

**09**

## Administer a Microsoft Fabric Environment

### TOPICS

Describe Fabric admin tasks · Navigate the admin center · Manage user access · Govern data in Fabric

#### WHAT IS INCLUDED

## Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

#### ABOUT KOENIG

## Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

#### FLEXIBLE DELIVERY

## Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

## Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit [koenig-solutions.com](https://koenig-solutions.com)

✉ [info@koenig-solutions.com](mailto:info@koenig-solutions.com)