Microsoft Fabric Analytics Engineer

Duration: 4 Days **Course Code: M-DP600** **Delivery Method: Virtual Learning**

Overview:

Prepare, enrich, and serve data for analysis by consumers such as data analysts, report developers, and AI agents.
This 4-day course equips learners with the skills to design and implement end-to-end analytics solutions using Microsoft Fabric. Participants explore the platform's capabilities, progressing through data ingestion and preparation, semantic modelling, and delivering insights while supporting the full analytics lifecycle. The updated course follows a more structured learning path, ensuring a seamless journey from platform fundamentals to advanced implementation and operational support.

Updated 19/05/2026

Target Audience:

This course is intended for data professionals with experience in data modeling, transformation, and analytics. Learners should have prior experience translating business requirements into analytical measures by using Structured Query Language (SQL) or Data Analysis Expressions (DAX). Experience building semantic models and reports in Power BI is recommended. Familiarity with Kusto Query Language (KQL) and Python is also helpful but not required.

Objectives:

- **Students will learn how to,**
- Explore and navigate Microsoft Fabric to understand its analytics capabilities
- Ingest, transform, and prepare data using Fabric data tools
- Design and build semantic models to support business intelligence scenarios
- Create and deliver actionable insights using reporting and visualisation tools
- Implement end-to-end analytics solutions across the data lifecycle
- Manage and optimise analytics solutions, including performance and governance considerations

Prerequisites:

- Foundational knowledge of data concepts, including relational and non-relational data.
- Basic understanding of data analytics or business intelligence concepts.
- Familiarity with Azure or cloud-based data services .
- Experience with data transformation and querying (e.g., SQL or similar tools).
- Prior exposure to Power BI or data visualisation tools recommended.

Testing and Certification

- Microsoft Certified: Fabric Analytics Engineer Associate

Content:

Module 1: Explore analytics data stores in Microsoft Fabric

- Introduction to end-to-end analytics using Microsoft Fabric
- Discover and connect to data in OneLake
- Get started with lakehouses in Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Get started with Real-Time Intelligence in Microsoft Fabric

Module 2: Design and transform analytics data in Microsoft Fabric

- Choose data stores in Microsoft Fabric
- Design dimensional models for analytics in Microsoft Fabric
- Transform data using Dataflows Gen2 in Microsoft Fabric
- Transform data using notebooks in Microsoft Fabric
- Transform data using T-SQL in Microsoft Fabric

Module 3: Design and manage semantic models in Microsoft Fabric

- Create DAX calculations in semantic models
- Design semantic models for scale in Microsoft Fabric
- Optimize semantic model performance
- Enforce semantic model security
- Manage the semantic model development lifecycle

Module 4: Prepare AI-ready analytics data in Microsoft Fabric

- Prepare the semantic layer for AI in Microsoft Fabric
- Understand Microsoft Fabric IQ fundamentals
- Create an ontology with Fabric IQ

Module 5: Secure and govern analytics data in Microsoft Fabric

- Secure data access in Microsoft Fabric
- Secure a Microsoft Fabric data warehouse
- Govern data in Microsoft Fabric with Purview
- Govern analytics data in Microsoft Fabric

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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