

MICROSOFT OFFICIAL CURRICULUM

Microsoft

Microsoft Fabric Analytics Engineer

DP-600T00

Official Microsoft Learn course aligned to Fabric analytics engineering responsibilities across lakehouses, semantic models, warehouses, governance, and performance optimization.

Data

Advanced

Microsoft Fabric

DURATION

4 days

LEVEL

Advanced

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

**Microsoft Certified:
Fabric Analytics Engineer
Associate**

AUDIENCE PROFILE

Built for these roles

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.

OVERVIEW

Executive overview

This course covers how to prepare, enrich, and serve data for analysis by consumers such as data analysts, report developers, and AI agents. The course focuses on designing dimensional models and transforming data by using dataflows, notebooks, and T-SQL across lakehouses, warehouses, and eventhouses in Microsoft Fabric. The course also covers building and optimizing semantic models, managing the analytics development lifecycle, and enforcing security and governance across data assets.

PROGRAM OUTCOMES

Capabilities your teams will gain

- Design analytics workloads in Microsoft Fabric
- Build and manage data models, warehouses, and semantic layers
- Govern and secure Fabric assets across workspaces
- Optimize analytics performance for enterprise reporting scenarios

TRAINING PROVIDER

VNode ITeS


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ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Accelerates Microsoft Fabric adoption by helping analytics teams design, model, govern, and optimize enterprise analytics solutions in one platform.

Customization options

- Tailor the workshop to your Fabric rollout roadmap
- Add migration scenarios from Power BI, Synapse, or legacy BI stacks
- Extend with governance and operating model planning

CURRICULUM

Curriculum roadmap

1

MODULE 1

Explore analytics data stores in Microsoft Fabric

Understand how Microsoft Fabric unifies analytics storage through OneLake, and evaluate when to use lakehouses, warehouses, or eventhouses for your data workloads.

- 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

2





MODULE 2

Design and transform analytics data in Microsoft Fabric

Design dimensional models and apply transformations using dataflows, Spark notebooks, and T-SQL to produce consistent, analysis-ready 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

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3

MODULE 3

Design and manage semantic models in Microsoft Fabric

Create semantic models that serve reliable, governed analytics at scale — from initial DAX logic through performance optimization, data access control, and automated lifecycle management.

- 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

4

MODULE 4

Prepare AI-ready analytics data in Microsoft Fabric

Prepare your semantic layer for AI by adding metadata and linguistic context to gold-layer data stores and semantic models, then generate ontologies that AI agents use to answer business questions.

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

5

MODULE 5

Secure and govern analytics data in Microsoft Fabric

Implement layered access controls across Microsoft Fabric workspaces and data stores, then establish governance policies that help consumers identify trustworthy, certified analytics assets.

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

PRIVATE DELIVERY

Plan a private cohort for your team





Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

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