

DP 600- Microsoft Fabric Analytics Engineer



Duration: 4 days

Audience: The primary audience for this course is data professionals with experience in data modeling and analytics. DP-600 is designed for professionals who want to use Microsoft Fabric to create and deploy enterprise-scale data analytics solutions. Learners should have prior experience with one of the following programming languages: Structured Query Language (SQL), Kusto Query Language (KQL), or Data Analysis Expressions (DAX).

Prerequisites: Before attending this course, students must have:

- A foundational knowledge of core data concepts and how they're implemented using Microsoft data services. For more information see Azure Data Fundamentals.
- Experience designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value using Microsoft Power BI. For more information see Power BI Data Analyst.

Description: This course covers methods and practices for implementing and managing enterprise-scale data analytics solutions using Microsoft Fabric. Students will learn how to use Fabric dataflows, pipelines, and notebooks to develop analytics assets such as semantic models, data warehouses, and lakehouses. This course is designed for experienced data professionals skilled at data preparation, modeling, analysis, and visualization, such as the PL-300: Power BI Data Analyst certification

OUTLINE:

MODULE: GET STARTED WITH MICROSOFT FABRIC

- Explore how to implement data analytics solutions on a single platform with Microsoft Fabric. Integrate, transform, and store data to train AI models and create insightful reports.

LESSONS

- 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
- Orchestrate processes and data movement with Microsoft Fabric
- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Get started with Real-Time Intelligence in Microsoft Fabric
- Get started with data science in Microsoft Fabric

- Administer a Microsoft Fabric environment

EXERCISES

- Create a Microsoft Fabric lakehouse
- Analyze data with Apache Spark
- Use delta tables in Apache Spark
- Get started with Real-Time Intelligence in Microsoft Fabric
- Explore data science in Microsoft Fabric

MODULE: IMPLEMENT A DATA WAREHOUSE WITH MICROSOFT FABRIC

- Explore the data warehousing process and learn how to load, monitor, secure, and query a warehouse in Microsoft Fabric.

LESSONS

- Introduction to end-to-end analytics using Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Load data into a Microsoft Fabric data warehouse

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- Query a data warehouse in Microsoft Fabric
- Monitor a Microsoft Fabric data warehouse
- Secure a Microsoft Fabric data warehouse

EXERCISE

- Analyze data in a data warehouse
- Load data into a warehouse in Microsoft Fabric
- Query a data warehouse in Microsoft Fabric
- Monitor a data warehouse in Microsoft Fabric
- Secure a warehouse in Microsoft Fabric

MODULE: WORK WITH SEMANTIC MODELS IN MICROSOFT FABRIC

- Designing reports for enterprise scale requires more than just connecting to data. Understanding semantic models and strategies for scalability and lifecycle management are key to a successful enterprise implementation. This learning path helps you prepare for the Fabric Analytics Engineer Certification.

LESSONS

- Create DAX calculations in semantic models

- Design scalable semantic models
- Optimize a model for performance in Power BI
- Create and manage Power BI assets
- Enforce Power BI model security

EXERCISES

- Create DAX calculations
- Design a scalable semantic model
- Create reusable Power BI assets
- Enforce model security

MODULE: ADMINISTER AND GOVERN MICROSOFT FABRIC

- Microsoft Fabric Administration involves securing and governing data, administering the environment, and monitoring optimizing performance for efficient and compliant data management.

LESSONS

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

EXERCISE

- Secure data access in Microsoft Fabric