

DP-600: Implementing Analytics Solutions Using Microsoft Fabric

Course description

DP-600 course covers methods and practices for implementing and managing enterprise-scale data analytics solutions using Microsoft Fabric. Students will build on existing analytics experience and will learn how to use Microsoft Fabric components such as enabling workspaces, create lakehouses, data warehouses, notebooks, dataflows, data pipelines, semantic models, and Power BI Reports to create and deploy analytics assets. They also learn to implement analytics best practices in Fabric, including version control and deployment.

DP-600 course can be taken as a step-in learning about roles in cloud data services and Microsoft Fabric such as Data Engineer or Data Scientist, before taking further Microsoft Fabric courses.

- Course level: Associate
- Duration: 4 days

Activities

Our DP-600 exam certification course modules have 50% -60% hands-on lab sessions to encourage Thinking-Based Learning (TBL).

Course objectives

After completing this course, learners will be able to:

- Prepare and transform analytics data
- Implement semantic models using Power BI and DAX
- Design lakehouse and warehouse architectures

- Govern analytics assets in Microsoft Fabric
- Implement AI-ready semantic layers
- Manage analytics development lifecycle

Intended audience

This course is intended for the following audience:

- Data Analysts
- Data Engineers
- Analytics Engineers
- Data Stewards

Prerequisites

- Students have a foundational knowledge of Azure Data Platform (refer DP-900 course).
- Awareness of functioning of Azure Synapse Analytics and PowerBI is an added advantage.
- Working knowledge on T-SQL, PySpark and DAX is also beneficial.

Course outline

Module 1:

- Explore end-to-end analytics in Microsoft Fabric
- Administer Microsoft Fabric

Module 2:

- Ingest data with Dataflows (Gen2) in Microsoft Fabric
- Ingest data Spark and Microsoft Fabric notebooks
- Use Data Factory pipelines in Microsoft Fabric

Module 3:

- Get started with lakehouses in Microsoft Fabric
- Organize a Fabric lakehouse using medallion architecture

Module 4:

- Use Apache Spark in Microsoft Fabric
- Work with Delta Lake tables in Microsoft Fabric
- Secure your Fabric lakehouse

Module 5:

- Get started with data warehouses in Microsoft Fabric
- Load data into a Microsoft Fabric data warehouse

Module 6:

- Query a data warehouse in Microsoft Fabric
- Monitor and optimize a Microsoft Fabric data warehouse
- Secure your Fabric data warehouse

Module 7:

- Understand scalability in Power BI
- Create Power BI model relationships
- Use tools to optimize Power BI performance

Module 8:

- Enforce Power BI model security

Your course overview ends here.
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About CloudThat

Established in 2012, CloudThat is an award-winning company and the first in India to offer cloud training and consulting services for individuals and enterprises worldwide. Recently, it won Google Cloud's New Training Partner of the Year Award for 2025, becoming the first company in the world in 2025 to hold awards from all three major cloud giants: AWS, Microsoft, and Google. CloudThat notably won consecutive AWS Training Partner of the Year (APJ) awards in 2023 and 2024 and the Microsoft Training Services Partner of the Year Award in 2024, bringing its total award count to an impressive 12 awards in the last 8 years.

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To know more about our cloud certification training, email at sales@cloudthat.com or call us at **+91-8880002200** or **+1-8555588830** for those from outside India.