



MICROSOFT TRAINING

DP-600T00: Microsoft Fabric Analytics Engineer

Master Microsoft Fabric as an Analytics Engineer. Prepare for DP-600 certification to design and implement robust analytics solutions.

DURATION

4 days

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The DP-600T00: Microsoft Fabric Analytics Engineer course is meticulously designed to equip data professionals with the essential skills to design, develop, and deploy comprehensive analytics solutions using Microsoft Fabric. This intensive 4-day program delves deep into the capabilities of Fabric, a unified analytics platform that brings together data integration, data warehousing, real-time analytics, and business intelligence into a single SaaS offering. Participants will learn to leverage core Fabric components such as Data Factory, Synapse Data Warehousing, Synapse Real-Time Analytics, and Power BI to build end-to-end data pipelines and analytical solutions.

Through a blend of theoretical knowledge and practical, hands-on labs, you will gain proficiency in ingesting, transforming, and storing data effectively within a Lakehouse architecture using OneLake. The course emphasizes implementing robust data models, developing advanced analytics solutions, and creating compelling Power BI reports and dashboards to derive actionable insights. You'll master techniques for optimizing performance, ensuring data security, and managing the lifecycle of your analytics solutions within the Fabric ecosystem.

This certification prepares you for the DP-600 exam, validating your expertise as a Microsoft Fabric Analytics Engineer. Earning this intermediate-level certification not only solidifies your technical prowess in modern data analytics but also significantly enhances your career prospects, enabling you to contribute to data-driven decision-making and innovation within organizations.

Duration	4 days
Level	Intermediate
Vendor	Microsoft
Exam Code	DP-600

PREREQUISITES

- Understanding of cloud computing concepts
- Familiarity with Azure portal
- Basic PowerShell or CLI experience
- Understanding of virtualization concepts

COURSE CURRICULUM

01 Module 1: Introduction to Microsoft Fabric and Data Lakehouse Architecture

- Microsoft Fabric overview and key components
- Configuring Fabric workspaces and administration
- Understanding OneLake and the Lakehouse concept
- Ingesting data into OneLake with Data Factory
- Implementing Fabric security and governance principles

02 Module 2: Implementing Data Ingestion and Transformation in Fabric

- Designing and creating data pipelines with Data Factory
- Utilizing dataflows for advanced ETL operations
- Transforming data using Spark notebooks (PySpark/Scala)
- Managing Delta Lake tables for data reliability

- Working with shortcuts and external data sources

03 Module 3: Developing Data Warehousing and Real-Time Analytics Solutions

- Designing and implementing Synapse Data Warehouse in Fabric
- Querying data effectively with T-SQL
- Introduction to Kusto Query Language (KQL) for real-time data
- Building real-time analytics solutions with Eventstreams and KQL databases
- Leveraging data mirroring capabilities for operational reporting

04 Module 4: Creating and Managing Semantic Models

- Designing robust Power BI datasets for Fabric
- Developing advanced DAX measures and calculated columns
- Implementing Row-Level Security (RLS) and Object-Level Security (OLS)
- Managing dataset lifecycle and deployment pipelines
- Optimizing semantic model performance and scalability

05 Module 5: Exploring Data and Solution Optimization

- Creating interactive Power BI reports and dashboards
- Performing data exploration and analysis within Fabric
- Monitoring Fabric capacity and resource utilization
- Implementing data governance and compliance strategies
- Performance tuning and optimization techniques for Fabric solutions

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Microsoft Fabric Analytics Engineer**
- > **Data Warehouse Developer (Microsoft Fabric Specialist)**
- > **BI Solution Architect (Fabric-focused)**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or technical knowledge is recommended before enrolling in the DP-600T00 course?

This intermediate-level course assumes a foundational understanding of data analytics concepts, including relational databases, basic SQL queries, and familiarity with cloud computing principles (preferably Azure). Prior exposure to Power BI or other business intelligence tools, as well as an understanding of data modeling, will be highly beneficial but not strictly required to succeed in this training.

Q: How will the Microsoft Fabric Analytics Engineer certification impact my career progression in the data analytics domain?

Achieving the Microsoft Fabric Analytics Engineer certification (DP-600) validates your comprehensive expertise in leveraging the entire Microsoft Fabric platform for end-to-end data analytics solutions. This credential significantly enhances your marketability, opening doors to specialized roles such as a dedicated Fabric Analytics Engineer, a Data Warehouse Developer specializing in Fabric, or a BI Solution Architect, and positions you as a leading expert in modern, unified data platforms.

Q: What specific hands-on skills will I acquire during this DP-600T00 training to build end-to-end analytics solutions?

Throughout this course, you will develop practical skills in configuring Fabric workspaces, ingesting diverse data sources using Data Factory pipelines and dataflows, transforming data with Spark notebooks and T-SQL, building scalable Synapse Data Warehouses and real-time KQL databases. You will also master developing robust Power BI semantic models and creating compelling reports, integrating all these components to construct efficient, secure, and performant end-to-end data analytics solutions within the Microsoft Fabric ecosystem.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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50+

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READY TO ENROL?

Take the next step in your technology career.

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