DP-600T00 Implement analytics solutions using Microsoft Fabric

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Fabric Analytics Engineer Associate
Related Exam:	DP-600

Course 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.

About This Course

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.

Who Should Attend

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.

Prerequisites & Entry Requirements

General Prerequisites:

- PL-300 certification or equivalent Power BI expertise
- Experience with SQL, KQL, or DAX
- Familiarity with enterprise-level data modeling, transformation, and deployment

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesImplement Dataflow solutions for data ingestion and transformation in Fabric, including Spark integrationAccess external data sources, configure authentication, and optimize data intake for Fabric lakehousesLearn techniques to load data into Fabric lakehouses as files or Delta tablesUnderstand and utilize Fabric's pipeline capabilities, including the Copy Data activity and pre-built templates, to orchestrate data flowsDesign and create Fabric lakehouses, ingest data efficiently in various formats, and query data using SQLApply the principles of the medallion architecture within the Fabric environment for effective data managementAnalyze data stored in Fabric lakehouses directly from Power BI using DirectLake capabilitiesConfigure and utilize Spark within Fabric, choose suitable scenarios for Spark notebooks and jobs, and manipulate data through Spark data framesUnderstand and manage Delta Lake and delta tables in Fabric using Spark for efficient data management and transformationsDifferentiate data warehouses from lakehouses, work with data warehouses in Fabric, implement data loading strategies, and build pipelines using T-SQL., Course ObjectivesImplement Dataflow solutions for data ingestion and transformation in Fabric, including Spark integrationAccess external data sources, configure authentication, and optimize data intake for Fabric lakehousesLearn techniques to load data into Fabric lakehouses as files or Delta tablesUnderstand and utilize Fabric's pipeline capabilities, including the Copy Data activity and pre-built templates, to orchestrate data flowsDesign and create Fabric lakehouses, ingest data efficiently in various formats, and query data using SQLApply the principles of the medallion architecture within the Fabric environment for effective data managementAnalyze data stored in Fabric lakehouses directly from Power BI using DirectLake capabilitiesConfigure and utilize Spark within Fabric, choose suitable scenarios for Spark notebooks and jobs, and manipulate data through Spark data framesUnderstand and manage Delta Lake and delta tables in Fabric using Spark for efficient data management and transformationsDifferentiate data warehouses from lakehouses, work with data warehouses in Fabric, implement data loading strategies, and build pipelines using T-SQL., Course ObjectivesImplement Dataflow solutions for data ingestion and transformation in Fabric, including Spark integrationAccess external data sources, configure authentication, and optimize data intake for Fabric lakehousesLearn techniques to load data into Fabric lakehouses as files or Delta tablesUnderstand and utilize Fabric's pipeline capabilities, including the Copy Data activity and pre-built templates, to orchestrate data flowsDesign and create Fabric lakehouses, ingest data efficiently in various formats, and query data using SQLApply the principles of the medallion architecture within the Fabric environment for effective data managementAnalyze data stored in Fabric lakehouses directly from Power BI using DirectLake capabilitiesConfigure and utilize Spark within Fabric, choose

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Detailed Course Outline

1 - Introduction to end-to-end analytics using Microsoft Fabric

- Explore end-to-end analytics with Microsoft Fabric
- Explore data teams and Microsoft Fabric
- Enable and use Microsoft Fabric
- Module assessment

2 - Discover and connect to data in OneLake

- Understand OneLake
- Browse and connect to data in OneLake
- Discover streaming data in Real-Time hub

3 - Get started with lakehouses in Microsoft Fabric

- Describe lakehouse features and capabilities
- Ingest and transform data in a lakehouse
- Query and analyze lakehouse data
- Module assessment

4 - Get started with data warehouses in Microsoft Fabric

- Understand data warehouses
- Understand data warehouses in Fabric
- Query and transform data
- Model data in a warehouse
- Secure and monitor a warehouse
- Module assessment

5 - Get started with Real-Time Intelligence in Microsoft Fabric

- What is real-time data analytics?
- Real-Time Intelligence in Microsoft Fabric
- Ingest and transform real-time data
- Store and query real-time data
- Visualize real-time data
- Automate actions
- Module assessment

6 - Choose data stores in Microsoft Fabric

- Describe analytical data store options
- Evaluate lakehouse capabilities
- Evaluate warehouse capabilities
- Evaluate eventhouse capabilities
- Case study - Choose data stores for an integrated analytics solution
- Module assessment

7 - Design dimensional models for analytics in Microsoft Fabric

- Describe dimensional schema types
- Design fact tables
- Design dimension tables
- Implement slowly changing dimensions

8 - Transform data using Dataflows Gen2 in Microsoft Fabric

- Understand Dataflows Gen2
- Transform data with Power Query
- Optimize Dataflows Gen2 performance

9 - Transform data using notebooks in Microsoft Fabric

- Describe notebooks in Fabric
- Shape and clean data
- Combine and aggregate data
- Write and size Delta tables

10 - Transform data using T-SQL in Microsoft Fabric

- Transform data with T-SQL queries
- Create views for reusable logic
- Build stored procedures
- Implement dimensional tables

11 - Create DAX calculations in semantic models

- Create calculated tables
- Create calculated columns
- Understand implicit measures
- Create explicit measures
- Use iterator functions

12 - Design semantic models for scale in Microsoft Fabric

- Choose a storage mode
- Design star schema for semantic models
- Design scalable calculations
- Configure settings for scale
- Module assessment

13 - Optimize semantic model performance

- Use Performance analyzer to diagnose issues
- Optimize DAX calculations
- Reduce cardinality for better performance
- Implement aggregations
- Troubleshoot common performance issues

14 - Enforce semantic model security

- Implement row-level security
- Apply object-level security
- Test security and manage roles
- Module assessment

15 - Manage the semantic model development lifecycle

- Create reusable Power BI assets
- Manage Power BI content in version control
- Manage semantic models with the XMLA endpoint
- Deploy content through stages
- Maintain and monitor semantic models
- Module assessment

16 - Prepare the semantic layer for AI in Microsoft Fabric

- Understand what AI needs from your data
- Design gold layers with AI in mind
- Prepare a semantic model for AI
- From semantic models to enterprise ontology
- Validate AI readiness
- Module assessment

17 - Understand Microsoft Fabric IQ fundamentals

- Get started with Fabric IQ
- Explore Microsoft Fabric IQ components
- Understand the ontology modeling paradigm
- Module assessment

18 - Create an ontology with Fabric IQ

- Choose an ontology creation approach
- Build an ontology manually
- Generate an ontology from a Power BI semantic model
- Connect an ontology to data
- Configure ontology relationships
- Preview the ontology
- Module assessment

19 - Secure data access in Microsoft Fabric

- Understand the Fabric security model
- Configure workspace and item permissions
- Apply granular permissions
- Module assessment

20 - Secure a Microsoft Fabric data warehouse

- Explore dynamic data masking
- Implement row-level security
- Implement column-level security
- Configure SQL granular permissions using T-SQL
- Module assessment

21 - Govern data in Microsoft Fabric with Purview

- Govern data in Microsoft Fabric
- Why use Microsoft Purview with Microsoft Fabric?
- Govern data in the Microsoft Purview hub
- Module assessment

22 - Govern analytics data in Microsoft Fabric

- Classify and protect data in Microsoft Fabric
- Endorse and document data assets
- Govern data for AI consumption

, Ingest Data with Dataflows Gen2 in Microsoft Fabric, Ingest data with Spark and Microsoft Fabric notebooks, Use Data Factory pipelines in Microsoft Fabric, Get started with lakehouses in Microsoft Fabric, Organize a Fabric lakehouse using medallion architecture design, Use Apache Spark in Microsoft Fabric, Work with Delta Lake tables in Microsoft Fabric, Get started with data warehouses in Microsoft Fabric, Load data into a Microsoft Fabric data warehouse, Monitor a Microsoft Fabric data warehouse, Understand scalability in Power BI, Create Power BI model relationships, Use tools to optimize Power BI performance, Enforce Power BI model security, Introduction to end-to-end analytics using Microsoft Fabric, Get started with Real-Time Intelligence in Microsoft Fabric, Get started with data science in Microsoft Fabric, Get started with Data Activator in Microsoft Fabric, Administer Microsoft Fabric, Query a data warehouse in Microsoft Fabric, Secure a Microsoft Fabric data warehouse, Get started with Microsoft Fabric, Implement a Lakehouse with Microsoft Fabric, Ingest data with Microsoft Fabric, Implement a data warehouse with Microsoft Fabric, Work with semantic models in Microsoft Fabric, Administer and govern Microsoft Fabric

Certification Path

Microsoft Certified: Fabric Analytics Engineer Associate

Exam: DP-600

Upcoming Schedule

Available training dates for DP-600T00 Implement analytics solutions using Microsoft Fabric:

Start Date	End Date	Location	Delivery	Price
17 Nov 2026	20 Nov 2026	Online	Virtual	€2,495.00

Frequently Asked Questions

Q: What delivery options are available for DP-600T00 Implement analytics solutions using Microsoft Fabric?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The DP-600T00 Implement analytics solutions using Microsoft Fabric course helps prepare you for the Microsoft Certified: Fabric Analytics Engineer Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the DP-600 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day DP-600T00 Implement analytics solutions using Microsoft Fabric course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the DP-600T00 Implement analytics solutions using Microsoft Fabric training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for DP-600T00 Implement analytics solutions using Microsoft Fabric?

Yes, we provide corporate training, dedicated training, and closed classes for DP-600T00 Implement analytics solutions using Microsoft Fabric. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: DP-600T00: Microsoft Fabric Analytics Engineer, Microsoft, vILT, DP-600T00

Q: Why choose Nexus Human for DP-600T00 Implement analytics solutions using Microsoft Fabric?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your DP-600T00 Implement analytics solutions using Microsoft Fabric training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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