Microsoft Fabric Analytics Engineer – Flexible Training («DP600V»)

This course covers methods and practices for implementing and managing enterprise-scale data analytics solutions using Microsoft Fabric.

Duration: 4 days
Price: 3'400.–
Course documents: Official Microsoft Courseware on Microsoft Learn

Content

Students will build on existing analytics experience and will learn how to use Microsoft Fabric components, including lakehouses, data warehouses, notebooks, dataflows, data pipelines, and semantic models, to create and deploy analytics assets.

Module 1: Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Data ingestion is crucial in analytics. Microsoft Fabric's Data Factory offers Dataflows for visually creating multi-step data ingestion and transformation using Power Query Online.

Module 2: Ingest data with Spark and Microsoft Fabric notebooks

- Discover how to use Apache Spark and Python for data ingestion into a Microsoft Fabric lakehouse. Fabric notebooks provide a scalable and systematic solution.

Module 3: Use Data Factory pipelines in Microsoft Fabric

- Microsoft Fabric includes Data Factory capabilities, including the ability to create pipelines that orchestrate data ingestion and transformation tasks.

Module 4: Get started with lakehouses in Microsoft Fabric

- Lakehouses merge data lake storage flexibility with data warehouse analytics. Microsoft Fabric offers a lakehouse solution for comprehensive analytics on a single SaaS platform.

Module 5: Organize a Fabric lakehouse using medallion architecture design

- Explore the potential of the medallion architecture design in Microsoft Fabric. Organize and transform your data across Bronze, Silver, and Gold layers of a lakehouse for optimized analytics.

Module 6: Use Apache Spark in Microsoft Fabric

- Apache Spark is a core technology for large-scale data analytics. Microsoft Fabric provides support for Spark clusters, enabling you to analyze and process data in a Lakehouse at scale.

Module 7: Work with Delta Lake tables in Microsoft Fabric

- Tables in a Microsoft Fabric lakehouse are based on the Delta Lake storage format commonly used in Apache Spark. By using the enhanced capabilities of delta tables, you can create advanced analytics solutions.

Module 8: Get started with data warehouses in Microsoft Fabric

- Data warehouses are analytical stores built on a relational schema to support SQL queries. Microsoft Fabric enables you to create a relational data warehouse in your workspace and

integrate it easily with other elements of your end-to-end analytics solution.

Module 9: Load data into a Microsoft Fabric data warehouse

- Data warehouse in Microsoft Fabric is a comprehensive platform for data and analytics, featuring advanced query processing and full transactional T-SQL capabilities for easy data management and analysis.

Module 10: Query a data warehouse in Microsoft Fabric

- Data warehouse in Microsoft Fabric is a comprehensive platform for data and analytics, featuring advanced query processing and full transactional T-SQL capabilities for easy data management and analysis.

Module 11: Monitor a Microsoft Fabric data warehouse

- A data warehouse is a vital component of an enterprise analytics solution. It's important to learn how to monitor a data warehouse so you can better understand the activity that occurs in it.

Module 12: Understand scalability in Power BI

- Scalable data models enable enterprise-scale analytics in Power BI. Implement data modeling best practices, use large dataset storage format, and practice building a star schema to design analytics solutions that can scale.

Module 13: Create Power BI model relationships

- Power BI model relationships form the basis of a tabular model. Define Power BI model relationships, set up relationships, recognize DAX relationship functions, and describe relationship evaluation.

Module 14: Use tools to optimize Power BI performance

- Use tools to develop, manage, and optimize Power BI data model and DAX query performance.

Module 15: Enforce Power BI model security

- Enforce model security in Power BI using row-level security and object-level security.

Key Learnings

- Planning, implementing, and managing a solution for data analytics
- Preparing and serving data
- Implementing and managing semantic models
- Exploring and analyzing data

Target audience

The primary audience for this course is data professionals with experience in data modeling, extraction, and analytics. DP-600 is designed for professionals who want to use Microsoft Fabric to create and deploy enterprise-scale data analytics solutions.

Requirements

This course is best suited for those who have the PL-300 certification or similar expertise in using Power BI for data transformation, modeling, visualization, and sharing. Also, learners should have prior experience in building and deploying data analytics solutions at the enterprise level.

- Microsoft Power BI Data Analyst – Flexible Training («PL300V»)
- Implementing a Lakehouse with Microsoft Fabric – Flexible Training («DP601V»)

Certification

This flexible training prepares you for:

- **Exam:** «DP-600: Implementing Analytics Solutions Using Microsoft Fabric (beta)» for the
- **Certification:** «Microsoft Certified: Fabric Analytics Engineer Associate»

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-microsoft-technology/microsoft-azure/microsoft-certified-fabric-analytics-engineer-associate/course-microsoft-fabric-analytics-engineer-flexible-training