



GTech Learn

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Course Contents

DP-700-SPL: Implement data engineering solutions using Microsoft Fabric

Duration: 14+ hours	Level: Intermediate	Role: Data Engineer
Certification: Available	Public Schedules: View Dates	Private Delivery: Reach Us

What's included?

- ✓ Learn from Microsoft Certified Trainer (MCT's)
- ✓ 24x7 Lab Access
- ✓ Official Courseware
- ✓ Exam Preps / Practice Tests
- ✓ Badges & Completion Certificate
- ✓ Discounted Exam Vouchers



Data & AI
Azure

Training Services

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Overview

This course covers methods and practices to implement data engineering solutions by using Microsoft Fabric. Students will learn how to design and develop effective data loading patterns, data architectures, and orchestration processes. Objectives for this course include ingesting and transforming data and securing, managing, and monitoring data engineering solutions. This course is designed for data professionals with some data integration and orchestration experience.

Audience Profile

This audience for this course is data professionals with experience in data extraction, transformation, and loading. DP-700 is designed for professionals who need to create and deploy data engineering solutions using Microsoft Fabric for enterprise-scale data analytics. Learners should also have experience at manipulating and transforming data with one of the following programming languages: Structured Query Language (SQL), PySpark, or Kusto Query Language (KQL).

Contents

Learning Path 1: Explore end-to-end analytics with Microsoft Fabric

- Describe end-to-end analytics in Microsoft Fabric
- Understand data teams and roles that use Fabric
- Describe how to enable and use Fabric

Learning Path 2: Get started with lakehouses in Microsoft Fabric

- Describe core features and capabilities of lakehouses in Microsoft Fabric
- Create a lakehouse
- Ingest data into files and tables in a lakehouse
- Query lakehouse tables with SQL

Learning Path 3: Use Apache Spark in Microsoft Fabric

- Describe end-to-end analytics in Microsoft Fabric
- Understand data teams and roles that use Fabric
- Describe how to enable and use Fabric

Learning Path 4: Work with Delta Lake tables in Microsoft Fabric

- Understand Delta Lake and delta tables in Microsoft Fabric
- Create and manage delta tables using Spark
- Optimize delta tables
- Use delta tables with Spark structured streaming

Learning Path 5: Ingest data with Dataflow Gen2 in Microsoft Fabric

- Describe Dataflow Gen2 capabilities in Microsoft Fabric
- Create Dataflow solutions to ingest and transform data
- Include a Dataflow in a pipeline

Learning Path 6: Orchestrate processes and data movement with Microsoft Fabric

- Describe pipeline capabilities in Microsoft Fabric.
- Use the Copy Data activity in a pipeline.
- Create pipelines based on predefined templates.
- Run and monitor pipelines.

Learning Path 7: Organize a lakehouse with medallion architecture

- Describe the principles of using the medallion architecture in data management.
- Apply the medallion architecture framework.
- Analyze data stored in the lakehouse using DirectLake in Power BI.

Learning Path 8: Get started with Real-Time Intelligence in Microsoft Fabric

- Understand real-time data analytics concepts
- Explore core components of Real-Time Intelligence in Microsoft Fabric

Learning Path 9: Use Real-Time Eventstreams in Microsoft Fabric

- Establish source and destinations in Microsoft Fabric Eventstreams.
- Capture, transform, and route data using Microsoft Fabric Eventstreams.

Learning Path 10: Work with real-time data in a Microsoft Fabric eventhouse

- Create an eventhouse in Microsoft Fabric
- Query real-time data by using Kusto Query Language (KQL)
- Create materialized views and stored functions in a KQL database

Learning Path 11: Create real-time dashboards with Microsoft Fabric

- Create a real-time dashboard in Microsoft Fabric.
- Use advanced feature of real-time dashboards.
- Apply best practices for real-time dashboards.

Learning Path 12: Use Activator in Microsoft Fabric

- Define data objects and properties in Activator
- Create rules that evaluate conditions in your data.
- Configure actions that execute when rule conditions are met.

Learning Path 13: Get started with data warehouses in Microsoft Fabric

- Describe data warehouses in Fabric.
- Understand a data warehouse vs a data Lakehouse.
- Work with data warehouses in Fabric.
- Create and manage fact tables and dimensions within a data warehouse.

Learning Path 14: Load data into a Microsoft Fabric data warehouse

- Strategies to load data into a data warehouse in Microsoft Fabric.
- Build a data pipeline to load a warehouse in Microsoft Fabric.
- Load data in a warehouse using T-SQL.
- Load and transform data with dataflow (Gen 2).

Learning Path 15: Monitor a Microsoft Fabric data warehouse

- Monitor capacity unit usage with the Microsoft Fabric Capacity Metrics app.
- Monitor current activity in the data warehouse with dynamic management views.
- Monitor querying trends with query insights views.

Learning Path 16: Secure a Microsoft Fabric data warehouse

- Learn the concepts of securing a data warehouse in Microsoft Fabric.
- Implement dynamic data masking, row-level security, and column-level security.
- Configure granular permissions using T-SQL.

Learning Path 17: Implement continuous integration and continuous delivery (CI/CD)

- Define CI/CD and describe how it's implemented in Fabric.
- Implement version control and Git integration.
- Use deployment pipelines to automate the deployment process.
- Automate CI/CD using Fabric APIs.

Learning Path 18: Monitor activities in Microsoft Fabric

- Apply monitoring concepts to Microsoft Fabric.
- Use Monitoring Hub in Microsoft Fabric.
- Trigger actions using Activator in Microsoft Fabric.

Learning Path 19: Secure data access in Microsoft Fabric

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

Learning Path 20: Administer Microsoft Fabric

- Describe Fabric admin tasks
- Navigate the admin center
- Manage user access

About GTech Learn

Established in 2011 in the USA, GTech Learn is one of the leading IT training organizations in North America & South East Asia. Driven by its unique USPs, GTech Learn is spurring competition, meeting the unmet needs of customers, assisting in skills upgrade, and supplementing talent pools with its presence in the USA, Canada, Singapore and India. This is consistent with our vision to help our Learners with skills upgrade for enhanced career opportunities.

As a Microsoft Learning Partner, we offer a broad range of learning solutions across the full Microsoft technology stack that can be customized.

Since 2011, GTech Learn has been developing custom-fit learning solutions that involve creating and delivering maximum results.

We have successfully helped all types of businesses, government entities, and individuals. For this reason, GTech has been chosen by Microsoft to deliver comprehensive learning programs around the globe.

With flexible learning options, state-of-the-art delivery methods, numerous language preferences, experienced instructors, and complete dedication to our students, GTech Learn has the capabilities to help students develop their Microsoft skill sets and achieve increasingly high standards of productivity while organizations of all sizes realize the full potential of their technology investments.

Our Accreditations with Microsoft

