DP-700T00 Implement data engineering 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 Applied Skills: Implement data engineering solutions using Microsoft Fabric
Related Exam:	DP-700

Course 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.

About This Course

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.

Who Should Attend

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).

Learning Outcomes

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

Course ObjectivesIngest and transform data using Dataflows Gen2 in Microsoft Fabric.Build and monitor data pipelines for seamless orchestration.Capture, analyze, and visualize real-time event data with Eventstreams.Create lakehouses and query data with Spark and SQL.Implement medallion architecture for efficient data organization.Secure data access and manage permissions within Microsoft Fabric.Develop real-time dashboards for actionable insights.Automate deployments with CI/CD and monitor activities using Monitoring Hub., Course ObjectivesIngest and transform data using Dataflows Gen2 in Microsoft Fabric.Build and monitor data pipelines for seamless orchestration.Capture, analyze, and visualize real-time event data with Eventstreams.Create lakehouses and query data with Spark and SQL.Implement medallion architecture for efficient data organization.Secure data access and manage permissions within Microsoft Fabric.Develop real-time dashboards for actionable insights.Automate deployments with CI/CD and monitor activities using Monitoring Hub., Course ObjectivesIngest and transform data using Dataflows Gen2 in Microsoft Fabric.Build and monitor data pipelines for seamless orchestration.Capture, analyze, and visualize real-time event data with Eventstreams.Create lakehouses and query data with Spark and SQL.Implement medallion architecture for efficient data organization.Secure data access and manage permissions within Microsoft Fabric.Develop real-time dashboards for actionable insights.Automate deployments with CI/CD and monitor activities using Monitoring Hub., Course ObjectivesIngest and transform data using Dataflows Gen2 in Microsoft Fabric.Build and monitor data pipelines for seamless orchestration.Capture, analyze, and visualize real-time event data with Eventstreams.Create lakehouses and query data with Spark and SQL.Implement medallion architecture for efficient data organization.Secure data access and manage permissions within Microsoft Fabric.Develop real-time dashboards for actionable insights.Automate deployments with CI/CD and monitor activities using Monitoring Hub., Course ObjectivesIngest and transform data using Dataflows Gen2 in Microsoft Fabric.Build and monitor data pipelines for seamless orchestration.Capture, analyze, and visualize real-time event data with Eventstreams.Create lakehouses and query data with Spark and SQL.Implement medallion architecture for efficient data organization.Secure data access and manage permissions within Microsoft Fabric.Develop real-time dashboards for actionable insights.Automate deployments with CI/CD and monitor activities using Monitoring Hub.

Detailed Course Outline

1 - Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Understand Dataflows Gen2 in Microsoft Fabric
- Explore Dataflows Gen2 in Microsoft Fabric
- Integrate Dataflows Gen2 and Pipelines in Microsoft Fabric
- Module assessment

2 - Orchestrate processes and data movement with Microsoft Fabric

- Understand pipelines
- Use the Copy Data activity
- Use pipeline templates
- Run and monitor pipelines
- Module assessment

3 - Use Apache Spark in Microsoft Fabric

- Prepare to use Apache Spark
- Run Spark code
- Work with data in a Spark dataframe
- Work with data using Spark SQL
- Visualize data in a Spark notebook
- Module assessment

4 - Work with real-time data in an Eventhouse in Microsoft Fabric

- Get started with an Eventhouse
- Use KQL effectively
- Materialized views and stored functions
- Module assessment

5 - 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

6 - Get started with lakehouses in Microsoft Fabric

- Explore the Microsoft Fabric lakehouse
- Work with Microsoft Fabric lakehouses
- Explore and transform data in a lakehouse
- Module assessment

7 - Use Apache Spark in Microsoft Fabric

- Prepare to use Apache Spark
- Run Spark code
- Work with data in a Spark dataframe
- Work with data using Spark SQL
- Visualize data in a Spark notebook
- Module assessment

8 - Work with Delta Lake tables in Microsoft Fabric

- Understand Delta Lake
- Create delta tables
- Optimize delta tables
- Work with delta tables in Spark
- Use delta tables with streaming data
- Module assessment

9 - Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Understand Dataflows Gen2 in Microsoft Fabric
- Explore Dataflows Gen2 in Microsoft Fabric
- Integrate Dataflows Gen2 and Pipelines in Microsoft Fabric
- Module assessment

10 - Orchestrate processes and data movement with Microsoft Fabric

- Understand pipelines
- Use the Copy Data activity
- Use pipeline templates
- Run and monitor pipelines
- Module assessment

11 - Organize a Fabric lakehouse using medallion architecture design

- Describe medallion architecture
- Implement a medallion architecture in Fabric
- Query and report on data in your Fabric lakehouse
- Considerations for managing your lakehouse
- Module assessment

12 - 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

13 - Use Eventstream in Microsoft Fabric

- Components of Eventstream
- Eventstream sources and destinations
- Eventstream transformations
- Module assessment

14 - Work with real-time data in an Eventhouse in Microsoft Fabric

- Get started with an Eventhouse
- Use KQL effectively
- Materialized views and stored functions
- Module assessment

15 - Create Real-Time Dashboards with Microsoft Fabric

- Get started with real-time dashboards
- Organize and filter dashboard data
- Dashboard management and optimization
- Module assessment

16 - Use Activator in Microsoft Fabric

- Configure Activator for your data
- Create rules in Activator
- Configure actions in Activator
- Module assessment

17 - 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

18 - Get started with data warehouses in Microsoft Fabric

- Understand data warehouse fundamentals
- Understand data warehouses in Fabric
- Query and transform data
- Prepare data for analysis and reporting
- Secure and monitor your data warehouse
- Module assessment

19 - Load data into a Microsoft Fabric data warehouse

- Explore data load strategies
- Use data pipelines to load a warehouse
- Load data using T-SQL
- Load and transform data with Dataflow Gen2
- Module assessment

20 - Query a data warehouse in Microsoft Fabric

- Query data
- Use the SQL query editor
- Explore the visual query editor
- Use client tools to query a warehouse
- Module assessment

21 - Monitor a Microsoft Fabric data warehouse

- Monitor capacity metrics
- Monitor current activity
- Monitor queries
- Module assessment

22 - 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

23 - Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric

- Understand Continuous Integration and Continuous Delivery (CI/CD)
- Implement version control and Git integration
- Implement deployment pipelines
- Automate CI/CD using Fabric APIs
- Module assessment

24 - Monitor activities in Microsoft Fabric

- Understand monitoring
- Use Microsoft Fabric Monitor Hub
- Take action with Microsoft Fabric Activator
- Module assessment

25 - Secure data access in Microsoft Fabric

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

26 - Administer a Microsoft Fabric environment

- Understand the Fabric Architecture
- Understand the Fabric administrator role
- Manage Fabric security
- Govern data in Fabric
- Module assessment

27 - Use Activator in Microsoft Fabric

- Configure Activator for your data
- Create rules in Activator
- Configure actions in Activator
- Module assessment

, Ingest data with Microsoft Fabric, Implement a Lakehouse with Microsoft Fabric, Implement Real-Time Intelligence with Microsoft Fabric, Implement a data warehouse with Microsoft Fabric, Manage a Microsoft Fabric environment

🎓 Certification Path

Microsoft Applied Skills: Implement data engineering solutions using Microsoft Fabric

Exam: DP-700

Upcoming Schedule

Available training dates for DP-700T00 Implement data engineering solutions using Microsoft Fabric:

Start Date	End Date	Location	Delivery	Price
08 Dec 2026	11 Dec 2026	Online	Virtual	€2,495.00

Frequently Asked Questions

Q: What delivery options are available for DP-700T00 Implement data engineering 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-700T00 Implement data engineering solutions using Microsoft Fabric course helps prepare you for the Microsoft Applied Skills: Implement data engineering solutions using Microsoft Fabric certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the DP-700 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-700T00 Implement data engineering 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-700T00 Implement data engineering 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-700T00 Implement data engineering solutions using Microsoft Fabric?

Yes, we provide corporate training, dedicated training, and closed classes for DP-700T00 Implement data engineering 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-700T00: Microsoft Fabric Data Engineer, Microsoft, vILT, DP-700T00

Q: Why choose Nexus Human for DP-700T00 Implement data engineering 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-700T00 Implement data engineering 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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