DP-601T00: Implementing a Lakehouse with Microsoft Fabric

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

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Applied Skills: Implement a Lakehouse with Microsoft Fabric
Related Exam:	DP-601

Course Overview

This course is designed to build your foundational skills in data engineering on Microsoft Fabric, focusing on the Lakehouse concept. This course will explore the powerful capabilities of Apache Spark for distributed data processing and the essential techniques for efficient data management, versioning, and reliability by working with Delta Lake tables. This course will also explore data ingestion and orchestration using Dataflows Gen2 and Data Factory pipelines. This course includes a combination of lectures and hands-on exercises that will prepare you to work with lakehouses in Microsoft Fabric.

About This Course

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Who Should Attend

The primary audience for this course is data professionals who are familiar with data modeling, extraction, and analytics. It is designed for professionals who are interested in gaining knowledge about Lakehouse architecture, the Microsoft Fabric platform, and how to enable end-to-end analytics using these technologies.
Job role: Data Analyst, Data Engineer, Data Scientist

Prerequisites & Entry Requirements

General Prerequisites:

You should be familiar with basic data concepts and terminology.

Learning Outcomes

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

Describe end-to-end analytics 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

Configure Spark in a Microsoft Fabric workspace

Identify suitable scenarios for Spark notebooks and Spark jobs

Use Spark dataframes to analyze and transform data

Use Spark SQL to query data in tables and views

Visualize data in a Spark notebook

Understand Delta Lake and delta tables in Microsoft Fabric

Create and manage delta tables using Spark

Use Spark to query and transform data in delta tables

Use delta tables with Spark structured streaming

Describe Dataflow (Gen2) capabilities in Microsoft Fabric

Create Dataflow (Gen2) solutions to ingest and transform data

Include a Dataflow (Gen2) in a pipeline

Detailed Course Outline

Introduction to end-to-end analytics using Microsoft Fabric

- Explore end-to-end analytics with Microsoft Fabric
- Data teams and Microsoft Fabric
- Enable and use Microsoft Fabric
- Knowledge Check

Get started with lakehouses in Microsoft Fabric

- Explore the Microsoft Fabric Lakehouse
- Work with Microsoft Fabric Lakehouses
- Exercise - Create and ingest data with a Microsoft Fabric Lakehouse

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
- Exercise - Analyze data with Apache Spark

Work with Delta Lake Tables in Microsoft Fabric

- Understand Delta Lake
- Create delta tables
- Work with delta tables in Spark
- Use delta tables with streaming data
- Exercise - Use delta tables in Apache Spark

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
- Exercise - Create and use a Dataflow (Gen2) in Microsoft Fabric

, Introduction to end-to-end analytics using Microsoft Fabric, Get started with lakehouses in Microsoft Fabric, Use Apache Spark in Microsoft Fabric, Work with Delta Lake tables in Microsoft Fabric, Ingest Data with Dataflows Gen2 in Microsoft Fabric, Use Data Factory pipelines in Microsoft Fabric, Orchestrate processes and data movement with Microsoft Fabric, Organize a Fabric lakehouse using medallion architecture design

□□ Certification Path

Microsoft Applied Skills: Implement a Lakehouse with Microsoft Fabric

Exam: DP-601

Additional Course Details

Nexus Humans DP-601 Implementing a Lakehouse with Microsoft Fabric training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the DP-601 Implementing a Lakehouse with Microsoft Fabric course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for DP-601T00: Implementing a Lakehouse with 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-601T00: Implementing a Lakehouse with Microsoft Fabric course helps prepare you for the Microsoft Applied Skills: Implement a Lakehouse with Microsoft Fabric certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the DP-601 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 1-day DP-601T00: Implementing a Lakehouse with Microsoft Fabric course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the DP-601T00: Implementing a Lakehouse with Microsoft Fabric training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for DP-601T00: Implementing a Lakehouse with Microsoft Fabric?

Yes, we provide corporate training, dedicated training, and closed classes for DP-601T00: Implementing a Lakehouse with 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: dp601 dp 600 dp 601, DP-601T00: Implement a Lakehouse with Microsoft Fabric, Microsoft, vILT, DP-601T00

Q: Why choose Nexus Human for DP-601T00: Implementing a Lakehouse with 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-601T00: Implementing a Lakehouse with Microsoft Fabric training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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