



MICROSOFT FABRIC ESSENTIAL FOR BUSINESS

Course ID : MS-FB-101



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: 12,900 THB

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Power Platform, Data

This course provides comprehensive training on Microsoft Fabric, an end-to-end data solution platform. Microsoft Fabric delivers powerful capabilities for data storage, analysis, and visualization, addressing the challenge of data silos across business units through a centralized architecture known as OneLake. While business units can still manage and govern their data independently within Data Domains, this unified approach minimizes redundant investments and eliminates inconsistent datasets. The course offers a hands-on, practical workflow from start to finish, helping participants gain a clear and actionable understanding of key concepts for effective real-world implementation.

Objectives

1. Understand the key components and benefits of Microsoft Fabric
2. Prepare and transform data from multiple sources using DataFlow Gen 2
3. Design and build semantic models for enterprise-wide use
4. Generate actionable insights using Power BI and integrated analytics tools.

Target Audience

1. Organizations aiming to reduce data silos and long-term costs through Microsoft Fabric.
2. Organizations focusing on effective data governance and management.
3. Power BI professionals and advanced users.
4. Traditional BI practitioners (e.g., Microsoft SSIS, Microsoft SSAS).
5. Citizen Developers exploring enterprise-level data solutions.

Prerequisites

1. Basic understanding of Business Intelligence concepts.
2. Prior experience using Power BI is recommended.
3. Familiarity with SQL and Python is an advantage.

System Requirements

1. Active Microsoft Fabric license.
2. A modern web browser (latest version recommended).

TRAINING TOPICS

DAY 1 Morning Session

9:00 AM – 12:00 PM

1. Understanding Microsoft Fabric

- Introduction to Microsoft Fabric
- The OneLake concept for resolving data silos
- Data Mesh Architecture and its role in Fabric
- Demonstration: Exploring Data Domains
- Activating Microsoft Fabric (Preview)
- Exercise: Creating a new Workspace

2. Implementation Guidelines

- Data storage options: Warehouse, Lakehouse, Datamart, and KQL Database
- Data ingestion methods: Pipeline Copy Activity, Dataflows (Gen2), Spark, COPY statement for Warehouse, and CREATE TABLE AS SELECT (CTAS) within OneLake



DAY 1 Afternoon Session

1:00 PM – 4:00 PM

3. Warehouse in Microsoft Fabric

- Advantages of the Warehouse
- Importing data using Dataflows (Gen2).
- Exercise : Importing data with Dataflows (Gen2).
- Case study : Importing CSV files from Azure Blob Storage and tables from Azure SQL Database into Fact and Dimension Tables

4. Introduction to Data Pipeline

- Overview of Data Pipelines and the Copy Data Activity
- Exercise: Importing data using Copy Data Activity
- Case study : Importing data from Azure SQL Database into Dimension Tables
- Overview of other activities (Stored Procedure, Office 365 Outlook)
- Exercise: Creating workflows and defining dependency constraints
- Running and monitoring pipeline executions

5. Leveraging Semantic Models

- Introduction to the Default Semantic Model and its key components
- Creating calculated measures using DAX
- Exercise: Enhancing the Default Semantic Model and building User-Defined Semantic Models
- Exercise: Developing Power BI reports for online sales analysis
- Understanding the Direct Lake connectivity mode

6. Introduction to Apache Spark

- Integrating Apache Spark with Microsoft Fabric
- Overview of the environment, Spark job definitions, Notebooks, and the Semantic Link
- Using the semantic model in Notebooks with the SemPy Python library
- Case Study: Accessing data through Notebook using the Human Resources Sample PBIX

7. Lakehouse in Microsoft Fabric

- Key differences between Lakehouse and Warehouse
- Introduction to Delta Lake and Delta tables (Managed and External Source)
- Demonstration: Creating External Delta Tables from external sources
- Exercise: Preparing data using Spark
- Creating Shortcuts in Lakehouse
- Exercise: Creating Shortcuts and importing Excel files using Dataflows (Gen2).

- Introduction to SQL Endpoint and the Semantic Model on SQL Endpoint.
- Exercise: Building Power BI reports from Lakehouse.

8. Big Data Applications

- Advantages of Columnar Storage
- Introduction to On-Demand Loading
- Demonstration: Querying large -scale datasets.

9. Security in OneLake

- Lecture and demonstration: Implementing security at the Workspace level and for individual Fabric items

10. Licensing in Microsoft Fabric

- Tenant activation for organizations
- Capacity activation for Fabric Capacity and Power BI Premium Capacity
- Comparison between Fabric Capacity and Power BI Premium Capacity
- Overview of Copilot in Microsoft Fabric.



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