Course Highlights

32-Hour LIVE Instructor-Led Training

Learn with Real-World Scenarios

Practical Examples from Real-world Case Studies

Highly Interactive and Dynamic

Immersive Learning

Learn from Industry Experts

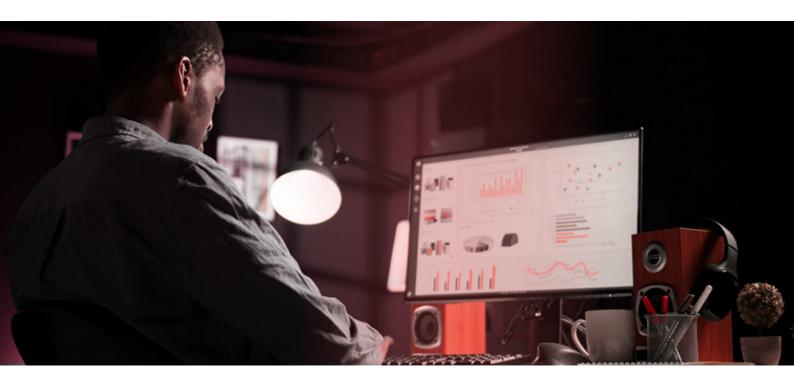Career Guidance and Mentorship

Extended Post Training Support

Access to Recorded Sessions

About Course

The **DP-600 : Microsoft Fabric Analytics Engineer** course from InfosecTrain is meticulously designed to equip data professionals with the expertise to leverage Microsoft Fabric for advanced data analytics. This course provides an in-depth understanding of end-to-end analytics, beginning with the fundamentals of Microsoft Fabric and Lakehouses. Participants will gain hands-on experience creating and managing Lakehouses, executing Apache Spark code, working with Spark DataFrames and SQL, and visualizing data using Spark Notebooks.
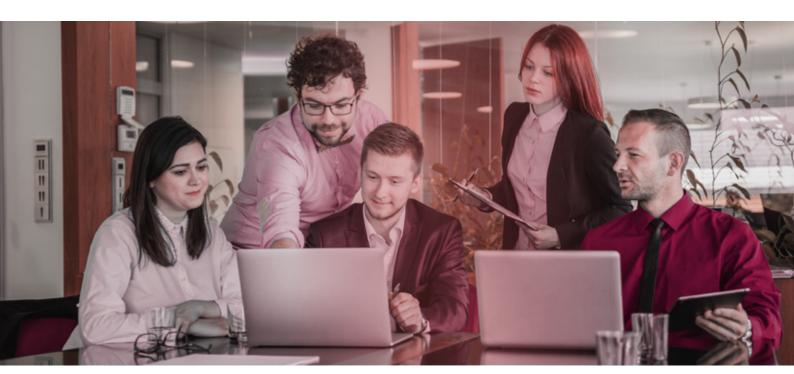
The course also covers creating and utilizing Delta Lake tables, integrating streaming data, and implementing Data Factory Pipelines for efficient data ingestion. Additionally, participants will explore Dataflows Gen2 for seamless data integration and delve into the essentials of data warehousing, including querying, transforming, securing, and monitoring data warehouses. By the end of the course, participants will be proficient in utilizing Microsoft Fabric to drive meaningful business insights and enhance data management efficiency.

Course Objectives

- Understand end-to-end analytics using Microsoft Fabric.
- Explore how data teams can leverage Microsoft Fabric.
- Explore and transform data within a Lake House environment.
- Learn to create, run, and monitor data ingestion pipelines.
- Understand and create Dataflows Gen2 for data integration.
- Understand data warehouse fundamentals and implementation in Microsoft Fabric.
- Explore real-time intelligence capabilities in Microsoft Fabric.
- Write and execute queries using KQL for real-time data analysis.

Target Audience

- Data Engineers
- Data Analysts
- Data Scientists
- Database Administrators
- BI Developers
- IT Professionals
- Data Architects

Pre-Requisites

- Foundational knowledge of core data concepts
- Experience designing and building scalable data models
- Skills in cleaning and transforming data

Course Content

Learning Path 1

- **Module 01:** Explore end-to-end analytics with Microsoft Fabric
- **Module 02:** Administer Microsoft Fabric

Learning Path 2

- **Module 01:** Ingest data with Dataflows (Gen2) in Microsoft Fabric
- **Module 02:** Ingest data Spark and Microsoft Fabric notebooks.
- **Module 03:** Use Data Factory pipelines in Microsoft Fabric

Learning Path 3

- **Module 01:** Get started with Lakehouse in Microsoft Fabric
- **Module 02:** Organize a Fabric Lakehouse using medallion architecture.

Learning Path 4

- **Module 01:** Use Apache Spark in Microsoft Fabric
- **Module 02:** Work with Delta Lake tables in Microsoft Fabric
- **Module 03:** Secure your Fabric Lakehouse

Learning Path 5

- **Module 01:** Get started with data warehouses in Microsoft Fabric
- **Module 02:** Load data into a Microsoft Fabric data warehouse

Learning Path 6

- **Module 01:** Query a data warehouse in Microsoft Fabric
- **Module 02:** Monitor and optimize a Microsoft Fabric data warehouse

Learning Path 7

- **Module 01:** Understand scalability in Power BI
- **Module 02:** Create Power BI model relationships.
- **Module 03:** Use tools to optimize Power BI performance.

Learning Path 8

- **Module 01:** Enforce Power BI model security.

INFOSECTRAIN

Lab

- Create a Microsoft Fabric Lakehouse

- Analyze data with Apache Spark

- Use delta tables in Apache Spark

- Create a medallion architecture in a Microsoft Fabric Lakehouse

- Ingest data with a pipeline in Microsoft Fabric

- Create and use Dataflows (Gen2) in Microsoft Fabric

- Analyze data in a data warehouse

- Load data into a warehouse using T-SQL

- Query a data warehouse in Microsoft Fabric

- Monitor a data warehouse in Microsoft Fabric

- Get started with Real-Time Analytics in Microsoft Fabric

- Get started with data science in Microsoft Fabric

- Explore data for data science with notebooks in Microsoft Fabric

- Preprocess data with Data Wrangler in Microsoft Fabric

- Train and track machine learning models with MLflow in Microsoft Fabric

- Generate batch predictions using a deployed model in Microsoft Fabric

- Get started with Real-Time Analytics in Microsoft Fabric

- Ingest data with Spark and Microsoft Fabric notebooks

- Use Data Activator in Fabric

- Query data in KQL Database

- Create and explore a semantic model

- Work with model relationships

- Use tools to optimize Power BI performance

- Enforce semantic model security