

Implement Data Engineering Solutions Using Microsoft Fabric

DP-700T00

Course Name	Implement Data Engineering Solutions Using Microsoft Fabric
Course Code	DP-700T00
Course Duration	4 Days
Course Structure	Instructor-Led
Course Overview	DP-700T00: Implement Data Engineering Solutions Using Microsoft Fabric provides delegates with comprehensive instruction on the methods and practices required to design and implement enterprise-scale data engineering solutions using Microsoft Fabric. The course covers the design and development of effective data loading patterns, modern data architectures, and orchestration processes. The programme places strong emphasis on ingesting and transforming data, securing and managing data engineering solutions, and monitoring operational performance. Delegates will explore lakehouse and data warehouse implementations, real-time intelligence, and end-to-end environment management. By course completion, learners will be prepared to design, build, and operate production-grade data engineering solutions on the Microsoft Fabric platform.
Audience Profile	This course is designed for data professionals with experience in data extraction, transformation, and loading. It is appropriate for individuals responsible for creating and deploying data engineering solutions using Microsoft Fabric to support enterprise-scale data analytics. Learners should have experience manipulating and transforming data using SQL, PySpark, or Kusto Query Language (KQL).
Course Prerequisites	Delegates should have experience working with at least one of the following programming languages: Structured Query Language (SQL), PySpark, or Kusto Query Language (KQL), in addition to a working knowledge of relational and analytical data concepts.
Course Outcome	Upon successful completion of this course, delegates will be equipped with the skills and knowledge required to: • Ingest data into Microsoft Fabric using a range of patterns and tools • Implement a lakehouse in Microsoft Fabric • Implement real-time intelligence with Microsoft Fabric

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	- Implement a data warehouse in Microsoft Fabric - Manage and monitor an end-to-end Fabric environment - Apply security and governance to Fabric data engineering solutions
Assessment/Evaluation	This course prepares delegates for the Microsoft Certified: Fabric Data Engineer Associate certification (Exam DP-700). Successful completion of the associated examination will result in attainment of the Microsoft Certified: Fabric Data Engineer Associate credential and a Certificate of Attendance issued by IT-IQ Botswana.

Course Details	
Topic	Module 1: Ingest Data with Microsoft Fabric - Data ingestion patterns and tools - Pipelines and dataflows - Choosing the right ingestion approach Module 2: Implement a Lakehouse in Microsoft Fabric - Lakehouse architecture - Working with Delta tables - Transforming data with notebooks and Spark Module 3: Implement Real-Time Intelligence in Microsoft Fabric - Eventstreams and Eventhouses - Real-time dashboards - KQL databases and querying Module 4: Implement a Data Warehouse in Microsoft Fabric - Warehouse design and modelling - Loading and transforming data with T-SQL - Querying and serving data

	Module 5: Secure and Govern Data Engineering Solutions • Workspace and item-level security • Data lineage and sensitivity labels • Governance integration with Microsoft Purview Module 6: Manage and Monitor Microsoft Fabric Environments • Capacity management and performance tuning • Monitoring pipelines and workloads • Operational best practices
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