

Microsoft Fabric Data Engineer – Course Outline **Duration:** 20 Hours

Price: R18,900 per person

Delivery: Online, one-on-one training with a real lecturer

Schedule: Choose your own dates & times

Certificate of Completion included

International exams optional (not included)

1. Introduction to Microsoft Fabric Overview of the Fabric ecosystem

OneLake architecture

Core components: Data Engineering, Data Factory, Real-Time Analytics, Data Science, Power BI

Lakehouse vs Warehouse

Understanding Fabric Capacities & Licensing

2. Lakehouse Architecture Setting up a Lakehouse

Managed vs unmanaged data

Delta tables & Parquet formats

Lakehouse explorer

Medallion architecture (Bronze, Silver, Gold)

3. Data Engineering with Fabric Notebooks

Python, SQL & Spark basics

Transformations with PySpark

Loading data into Lakehouse

Partitioning & optimization

4. Pipelines & Data Factory Fabric Data Pipelines

Copy activity & data flows

Connectors

Scheduling & monitoring

5. Dataflows Gen2 Power Query transformations

Incremental refresh

Connecting Dataflows to Lakehouse

6. Real-Time Analytics KQL databases

Event streaming

Real-time dashboards

7. Warehousing in Fabric Fabric Warehouse

SQL endpoint

Modeling & optimization

8. Governance & Security Admin portal

Data lineage

RBAC

Sensitivity labels

9. End-to-End Project Ingest raw data

Transform using Spark

Create Silver/Gold layers

Load into Warehouse

Build dashboard

Apply governance

Company Details The School of IT International Pty Ltd

Enterprise Number: 2019/278233/07

Tax Number: 9227879237

EFT Banking Details:

Bank: FNB

Account Type: Gold Business Account

Account Number: 62819004102

Branch Code: 200512

Branch Name: Somerset West