

DP-203T00-AC- Data Engineering on Microsoft Azure

COURSE OVERVIEW

In this course, participants will learn about the data engineering patterns and practices as it pertains to working with batch and real-time analytical solutions using Azure data platform technologies. They will begin by understanding the core compute and storage technologies that are used to build an analytical solution. They will then explore how to design analytical serving layers and focus on data engineering considerations for working with source files. In addition, participants will learn how to interactively explore data stored in files in a data lake. They will also learn the various ingestion techniques that can be used to load data using the Apache Spark capability found in Azure Synapse Analytics or Azure Databricks, or how to ingest using Azure Data Factory or Azure Synapse pipelines.

WHO SHOULD ATTEND?

The course is for data professionals, data architects, and business intelligence professionals who want to learn about data engineering and building analytical solutions using data platform technologies that exist on Microsoft Azure. Also, the data analysts and data scientists who work with analytical solutions built on Microsoft Azure.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Explore compute and storage options for data engineering workloads in Azure.
- Explore, transform, and load data into the Data Warehouse using Apache Spark.
- Perform data Exploration and Transformation in Azure Databricks.
- Transform Data with Azure Data Factory or Azure Synapse Pipelines.
- Integrate Data from Notebooks with Azure Data Factory or Azure Synapse Pipelines.
- Optimize Query Performance with Dedicated SQL Pools in Azure Synapse.
- Support Hybrid Transactional Analytical Processing (HTAP) with Azure Synapse Link.
- Create a Stream Processing Solution with Event Hubs and Azure Databricks.
- Build reports using Power BI integration with Azure Synapse Analytics.
- Perform Integrated Machine Learning Processes in Azure Synapse Analytics.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Overview of Azure data services.
- Designing data storage solutions.
- Batch and streaming data processing.
- Data integration with Azure Data Factory.
- Building data pipelines.
- Managing data security and compliance.
- Monitoring and optimizing data solutions.
- Implementing data lakes and lake houses.
- Working with Azure Synapse Analytics.
- Hands-on labs and real-world scenarios.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded