

KOENIG SOLUTIONS · COURSE OUTLINE

DP-203T00: Data Engineering on Microsoft Azure

Learn to design and implement data engineering solutions on Azure using Synapse Analytics, Data Lake Storage, Stream Analytics and Databricks.

4 Days

32 HOURS

9

MODULES

24

TOPICS

COURSE OVERVIEW

The DP-203T00: Data Engineering on Microsoft Azure course is designed to impart the knowledge and skills necessary to design and implement Data engineering solutions on Azure. It covers a comprehensive range of Azure services including Azure Data Lake Storage Gen2, Azure Synapse Analytics, Azure Stream Analytics, and Azure Data Bricks among others. Learners will gain practical experience through labs that reinforce the lessons, such as querying data with Server less SQL pools, performing Data engineering with Azure Synapse Apache Spark Pools, and implementing Real-time analytics with Azure Stream Analytics. The course also dives into security and compliance with modules on End-to-end security, and it explores Integration with Power BI for reporting and Azure Synapse Analytics for machine learning processes. By the end of this course, participants will have a strong foundation in Data engineering practices, enabling them to build scalable and secure data solutions in the cloud. This course is beneficial for professionals looking to leverage Azure for data processing, and analytics, and to gain insights that can drive business value.

WHO THIS COURSE IS FOR

The DP-203T00 course equips professionals with advanced skills in Azure data engineering, focusing on data storage, processing, and analytics. Job roles and audience for the course include:

Data Engineers

Data Architects

Data Scientists

Database Administrators

IT Professionals with a focus on data solutions

Business Intelligence Professionals

Cloud Solution Architects

Professionals seeking certification in Microsoft Azure Data Engineering

Technical Team Leads managing data-centric projects

Data Analysts aiming to upgrade their skills to include big data and real-time analytics

Software Engineers looking to specialize in data engineering on Azure platforms

DevOps Engineers working with data-intensive applications and analytics pipelines

What You Will Learn

- Explain core concepts of data engineering on Azure
- Query and transform data using serverless SQL pools
- Analyse and transform data with Apache Spark pools
- Load and analyse data in a relational data warehouse
- Build data pipelines using Azure Synapse Analytics
- Implement hybrid transactional and analytical processing solutions
- Ingest and visualise streaming data with Stream Analytics
- Govern data using Microsoft Purview and Azure Databricks

COURSE SYLLABUS

9 Modules, 24 Topics

01

Get Started with Data Engineering on Azure

TOPICS

Introduction to data engineering on Azure · Introduction to Azure Data Lake Storage Gen2 · Introduction to Azure Synapse Analytics

02

Build Data Analytics Solutions Using Azure Synapse Analytics Serverless SQL Pools

TOPICS

- Use a serverless SQL pool to query files in a data lake
- Use a serverless SQL pool to transform data
- Create a lake database

03

Perform Data Engineering with Azure Synapse Apache Spark Pools

TOPICS

- Analyze data with Apache Spark in Azure Synapse Analytics
- Transform data with Apache Spark in Azure Synapse Analytics
- Use Delta Lake in Azure Synapse Analytics

04

Work with Data Warehouses Using Azure Synapse Analytics

TOPICS

Analyze data in a relational data warehouse · Load data into a relational data warehouse

05

Transfer and Transform Data with Azure Synapse Analytics Pipelines

TOPICS

- Build a data pipeline in Azure Synapse Analytics
- Use Spark Notebooks in an Azure Synapse Pipeline

06

Work with Hybrid Transactional and Analytical Processing (HTAP) Solutions Using Azure Synapse Analytics

TOPICS

- Plan hybrid transactional and analytical processing
- Implement Azure Synapse Link with Azure Cosmos DB
- Implement Azure Synapse Link for SQL

07

Implement a Data Streaming Solution with Azure Stream Analytics

TOPICS

- Get started with Azure Stream Analytics
- Ingest streaming data using Azure Stream Analytics and Azure Synapse Analytics
- Visualise real-time data with Azure Stream Analytics and Power BI

08

Govern Data Across an Enterprise

TOPICS

- Introduction to Microsoft Purview
- Integrate Microsoft Purview and Azure Synapse Analytics

Data Engineering with Azure Databricks

TOPICS

- Explore Azure Databricks
- Use Apache Spark in Azure Databricks
- Run Azure Databricks notebooks in Azure Data Factory

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

[Classroom Training](#)[Live Online Classes \(ILO\)](#)[Fly-Me-A-Trainer \(FMAT\)](#)[Flexi \(Self-Paced\)](#)[1-on-1 Training](#)

Ready to Get Started?

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