

# MDAI-3 - MOC DP-203T00 - DATA ENGINEERING ON MICROSOFT AZURE

Categoria: **Data & AI**

## INFORMAZIONI SUL CORSO



**Durata:**  
4 Giorni



**Categoria:**  
Data & AI



**Qualifica Istruttore:**  
Microsoft Certified  
Trainer



**Dedicato a:**  
Professionista IT



**Produttore:**  
Microsoft

## OBIETTIVI

In this course, the student will learn how to implement and manage data engineering workloads on Microsoft Azure, using Azure services such as Azure Synapse Analytics, Azure Data Lake Storage Gen2, Azure Stream Analytics, Azure Databricks, and others. The course focuses on common data engineering tasks such as orchestrating data transfer and transformation pipelines, working with data files in a data lake, creating and loading relational data warehouses, capturing and aggregating streams of real-time data, and tracking data assets and lineage.

## PREREQUISITI

Successful students start this course with knowledge of cloud computing and core data concepts and professional experience with data solutions.

Specifically completing:

- AZ-900 - Azure Fundamentals
- DP-900 - Microsoft Azure Data Fundamentals

## CONTENUTI

**Introduction to data engineering on Azure**

**Introduction to Azure Data Lake Storage Gen2**

**Introduction to Azure Synapse Analytics**

**Use Azure Synapse serverless SQL pool to query files in a data lake**

**Use Azure Synapse serverless SQL pools to transform data in a data lake**

**Create a lake database in Azure Synapse Analytics**

**Analyze data with Apache Spark in Azure Synapse Analytics**

**Transform data with Spark in Azure Synapse Analytics**

**Use Delta Lake in Azure Synapse Analytics**

Analyze data in a relational data warehouse

Load data into a relational data warehouse

Build a data pipeline in Azure Synapse Analytics

Use Spark Notebooks in an Azure Synapse Pipeline

Plan hybrid transactional and analytical processing using Azure Synapse Analytics

Implement Azure Synapse Link with Azure Cosmos DB

Implement Azure Synapse Link for SQL

Get started with Azure Stream Analytics

Ingest streaming data using Azure Stream Analytics and Azure Synapse Analytics

Visualize real-time data with Azure Stream Analytics and Power BI

Introduction to Microsoft Purview

Integrate Microsoft Purview and Azure Synapse Analytics

Explore Azure Databricks

Use Apache Spark in Azure Databricks

Run Azure Databricks Notebooks with Azure Data Factory

## INFO

**Esame:** DP-203 - Data Engineering on Microsoft Azure

**Materiale didattico:** Materiale didattico ufficiale Microsoft in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)