

Learning path for Azure Data Engineer

Azure Data Engineers design and implement the management, monitoring, security, and privacy of data using the full stack of Azure data services to satisfy business needs.



aka.ms/AzureDataEngLearning



Classroom

Implementing an Azure Data Solution DP-200T01



Exam DP-200:
**Implementing an Azure
Data Solution**

Digital skilling: free interactive training
content on Microsoft Learn



Azure fundamentals

9H 35M – 12 Modules

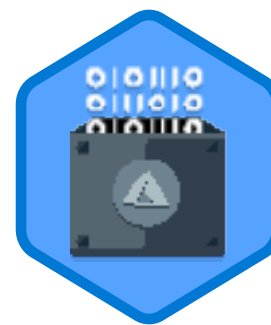
1. Principles of cloud computing
2. Introduction to Azure
3. Azure architecture and service guarantees
4. Create an Azure account
5. Manage services with Azure portal
6. Azure compute options
7. Azure data storage options
8. Azure networking options
9. Security, responsibility and trust in Azure
10. Apply and monitor infrastructure standards with Azure Policy
11. Control and organize Azure resources with Azure Resource Manager
12. Predict costs and optimize spending for Azure



Azure for the Data Engineer

1H 51M – 3 Modules

1. Understand the evolving world of data
2. Survey the services in the Azure Data Platform
3. Identify the tasks of a data engineer in a cloud-hosted architecture



Store data in Azure

3H 50M – 5 Modules

1. Choose a data storage approach in Azure
2. Create an Azure Storage account
3. Connect an app to Azure Storage
4. Secure your Azure Storage account
5. Store application data with Azure Blob storage



Work with relational data in Azure

3H 20M – 4 Modules

1. Provision an Azure SQL database to store application data
2. Create an Azure Database for PostgreSQL server
3. Scale multiple Azure SQL Databases with SQL elastic pools
4. Secure your Azure SQL Database



Work with NoSQL data in Azure Cosmos DB

5H 55M – 8 Modules

1. Create an Azure Cosmos DB database built to scale
2. Choose the appropriate API for Azure Cosmos DB storage
3. Insert and query data in your Azure Cosmos DB database
4. Store and access graph data in Azure Cosmos DB with the Graph API
5. Store and access NoSQL Data with Azure Cosmos DB and the Table API
6. Build a .NET Core app for Azure Cosmos DB in Visual Studio Code
7. Optimize the performance of Azure Cosmos DB by using partitioning and indexing strategies
8. Distribute your data globally with Azure Cosmos DB



Large Scale Data Processing with ADLS G2

2H 5M – 3 Modules

1. Introduction to Azure Data Lake Storage
2. Upload data to Azure Data Lake Storage
3. Secure your Azure Storage Account



Implement a Data Streaming Solution with Azure Streaming Analytics

1H 14M – 2 Modules

1. Work with data streams using Azure Stream Analytics
2. Transform data with Azure Stream Analytics



Implement a Data Warehouse with Azure SQL Data Warehouse

3H 21M – 4 Modules

1. Design a data warehouse with Azure SQL Data Warehouse
2. Query data in Azure SQL Data Warehouse
3. Import data into Azure SQL Data Warehouse using PolyBase
4. Data warehouse security



Perform data engineering with Azure Databricks

7H 49M – 9 Modules

1. Introduction to Azure Databricks
2. Access SQL Data warehouse instances with Azure Databricks
3. Data ingestion with Azure data factory
4. Read and write data using Azure Databricks
5. Perform basic data transformations in Azure Databricks
6. Perform advanced data transformation in Azure Databricks
7. Create data pipelines using Databricks Delta
8. Work with streaming data in Azure Databricks
9. Create data visualizations using Azure Databricks and Power BI



Extract knowledge and insights from your data with Azure Databricks

4H 21M – 6 Modules

1. Introduction to Azure Databricks
2. Read and write data by using Azure Databricks
3. Perform exploratory data analysis with Azure Databricks
4. Train, evaluate, and select machine-learning models with Azure Databricks
5. Deep learning with Azure Databricks
6. Perform text analytics with Azure Databricks

Classroom

Designing an Azure Data Solution DP-201T01



Exam DP-201:
**Designing an Azure
Data Solution**

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Certification helps establish your credentials with current and future employers.

Pass certification exams [DP-200](#) and [DP-201](#) to become a Microsoft Certified: Azure Data Engineer Associate.

Training options help you learn new skills that may better prepare you for your career and lay the foundation for success on our certification exams. Information subject to change. For the latest information, visit aka.ms/learn.

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