Szkolenie: Microsoft DP-200T01+DP-201T01 Azure Data Engineer Associate (exams: DP-200+DP-201)

(forma szkolenia) | materiały szkoleniowe | cena | czas trwania
---|---|---|---
Stacjonarne | Cyfrowe | 3600 PLN NETTO* | 5 dni
Stacjonarne | Tablet CTAB | 4000 PLN NETTO* | 5 dni

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

Lokalizacje
Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Dostępne terminy
2020-02-10 | 5 dni | Warszawa
2020-03-23 | 5 dni | Kraków
2020-06-22 | 5 dni | Warszawa

Cel szkolenia:
Pięciodniowe szkolenie DP-200T01+DP-201T01 Azure Data Engineer Associate (exams: DP-200+DP-201) zawiera w sobie następujące moduły: DP-200T01 Implementing an Azure Data Solution, DP-201T01 Designing an Azure Data Solution.

Plan szkolenia:
  1. DP-200T01 Implementing an Azure Data Solution
     1. Azure for the Data Engineer
        1. Explain the evolving world of data
        1. Survey the services in the Azure Data Platform
        1. Identify the tasks that are performed by a Data Engineer
        1. Describe the use cases for the cloud in a Case Study
        1. Lab : Azure for the Data Engineer
           1. Identify the evolving world of data
           1. Determine the Azure Data Platform Services
           1. Identify tasks to be performed by a Data Engineer
           1. Finalize the data engineering deliverables
○ Working with Data Storage
  ○ Choose a data storage approach in Azure
  ○ Create an Azure Storage Account
  ○ Explain Azure Data Lake storage
  ○ Upload data into Azure Data Lake
  ○ Lab : Working with Data Storage
    ○ Choose a data storage approach in Azure
    ○ Create a Storage Account
    ○ Explain Data Lake Storage
    ○ Upload data into Data Lake Store

○ Enabling Team Based Data Science with Azure Databricks
  ○ Explain Azure Databricks
  ○ Work with Azure Databricks
  ○ Read data with Azure Databricks
  ○ Perform transformations with Azure Databricks
  ○ Lab : Enabling Team Based Data Science with Azure Databricks
    ○ Explain Azure Databricks
    ○ Work with Azure Databricks
    ○ Read data with Azure Databricks
    ○ Perform transformations with Azure Databricks

○ Building Globally Distributed Databases with Cosmos DB
  ○ Create an Azure Cosmos DB database built to scale
  ○ Insert and query data in your Azure Cosmos DB database
  ○ Build a .NET Core app for Cosmos DB in Visual Studio Code
  ○ Distribute your data globally with Azure Cosmos DB
  ○ Lab : Building Globally Distributed Databases with Cosmos DB
    ○ Create an Azure Cosmos DB
    ○ Insert and query data in Azure Cosmos DB
    ○ Build a .Net Core App for Azure Cosmos DB using VS Code
    ○ Distribute data globally with Azure Cosmos DB

○ Working with Relational Data Stores in the Cloud
  ○ Use Azure SQL Database
  ○ Describe Azure SQL Data Warehouse
  ○ Creating and Querying an Azure SQL Data Warehouse
  ○ Use PolyBase to Load Data into Azure SQL Data Warehouse
  ○ Lab : Working with Relational Data Stores in the Cloud
○ Use Azure SQL Database
○ Describe Azure SQL Data Warehouse
○ Creating and Querying an Azure SQL Data Warehouse
○ Use PolyBase to Load Data into Azure SQL Data Warehouse

○ Performing Real-Time Analytics with Stream Analytics
  ○ Explain data streams and event processing
  ○ Data Ingestion with Event Hubs
  ○ Processing Data with Stream Analytics Jobs
  ○ Lab: Performing Real-Time Analytics with Stream Analytics
  ○ Explain data streams and event processing
  ○ Data Ingestion with Event Hubs
  ○ Processing Data with Stream Analytics Jobs

○ Orchestrating Data Movement with Azure Data Factory
  ○ Explain how Azure Data Factory works
  ○ Azure Data Factory Components
  ○ Azure Data Factory and Databricks
  ○ Lab: Orchestrating Data Movement with Azure Data Factory
  ○ Explain how Data Factory Works
  ○ Azure Data Factory Components
  ○ Azure Data Factory and Databricks

○ Securing Azure Data Platforms
  ○ An introduction to security
  ○ Key security components
  ○ Securing Storage Accounts and Data Lake Storage
  ○ Securing Data Stores
  ○ Securing Streaming Data
  ○ Lab: Securing Azure Data Platforms
  ○ An introduction to security
  ○ Key security components
  ○ Securing Storage Accounts and Data Lake Storage
  ○ Securing Data Stores
  ○ Securing Streaming Data

○ Monitoring and Troubleshooting Data Storage and Processing
  ○ Explain the monitoring capabilities that are available
  ○ Troubleshoot common data storage issues
  ○ Troubleshoot common data processing issues
○ Manage disaster recovery
○ Lab : Monitoring and Troubleshooting Data Storage and Processing
  ○ Explain the monitoring capabilities that are available
  ○ Troubleshoot common data storage issues
  ○ Troubleshoot common data processing issues
  ○ Manage disaster recovery

○ DP-201T01 Designing an Azure Data Solution
○ Data Platform Architecture Considerations
  ○ Core Principles of Creating Architectures
  ○ Design with Security in Mind
  ○ Performance and Scalability
  ○ Design for availability and recoverability
  ○ Design for efficiency and operations
○ Case Study
○ Lab : Case Study
  ○ Design with security in mind
  ○ Consider performance and scalability
  ○ Design for availability and recoverability
  ○ Design for efficiency and operations

○ Azure Batch Processing Reference Architectures
  ○ Lambda architectures from a Batch Mode Perspective
  ○ Design an Enterprise BI solution in Azure
  ○ Automate enterprise BI solutions in Azure
  ○ Architect an Enterprise-grade Conversational Bot in Azure
○ Lab : Architect an Enterprise-grade Conversational Bot in Azure
  ○ Designing an Enterprise BI solution in Azure
  ○ Automate an Enterprise BI solution in Azure
  ○ Automate an Enterprise BI solution in Azure

○ Azure Real-Time Reference Architectures
  ○ Lambda architectures for a Real-Time Perspective
  ○ Architect a stream processing pipeline with Azure Stream Analytics
  ○ Design a stream processing pipeline with Azure Databricks
  ○ Create an Azure IoT reference architecture
○ Lab : Azure Real-Time Reference Architectures
  ○ Architect a stream processing pipeline with Azure Stream Analytics
  ○ Design a stream processing pipeline with Azure Databricks
Create an Azure IoT reference architecture

- Data Platform Security Design Considerations
  - Defense in Depth Security Approach
  - Identity Management
  - Infrastructure Protection
  - Encryption Usage
  - Network Level Protection
  - Application Security
  - Lab: Data Platform Security Design Considerations
    - Defense in Depth Security Approach
    - Identity Protection

- Designing for Resiliency and Scale
  - Adjust Workload Capacity by Scaling
  - Optimize Network Performance
  - Design for Optimized Storage and Database Performance
  - Identifying Performance Bottlenecks
  - Design a Highly Available Solution
  - Incorporate Disaster Recovery into Architectures
  - Design Backup and Restore strategies
  - Lab: Designing for Resiliency and Scale
    - Adjust Workload Capacity by Scaling
    - Design for Optimized Storage and Database Performance
    - Design a Highly Available Solution
    - Incorporate Disaster Recovery into Architectures

- Design for Efficiency and Operations
  - Maximizing the Efficiency of your Cloud Environment
  - Use Monitoring and Analytics to Gain Operational Insights
  - Use Automation to Reduce Effort and Error
  - Lab: Design for Efficiency and Operations
    - Maximize the Efficiency of your Cloud Environment
    - Use Monitoring and Analytics to Gain Operational Insights
    - Use Automation to Reduce Effort and Error

Wymagania:

In addition to their professional experience, students who take this training should have technical
knowledge equivalent to the following courses:

- Azure fundamentals

Poziom trudności

Certyfikaty:

Uczestnicy kursu **DP-200T01+DP-201T01 Azure Data Engineer Associate (exams: DP-200+DP-201)** otrzymują certyfikat ukończenia autoryzowanego szkolenia **Microsoft**.

Prowadzący:

Microsoft Certified Trainer.

Informacje dodatkowe:

Zajęcia prowadzone są w języku polskim, materiały źródłowe oraz oprogramowanie są w języku angielskim.