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

FORMA SZKOLENIA | MATERIAŁY SZKOLENIOWE | CENA | CZAS TRWANIA
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Stacjonarne | Cyfrowe | 3600 PLN NETTO* | 5 dni
Stacjonarne | Tablet CTAB | 4000 PLN NETTO* | 5 dni
Metoda dlearning | Cyfrowe | 3600 PLN NETTO* | 5 dni
Metoda dlearning | Tablet CTAB | 3600 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
2020-06-22 | 5 dni | TRYB ZDALNY  (Termin gwarantowany)

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:
- DP-200T01 Implementing an Azure Data Solution
  - Azure for the Data Engineer
    - Explain the evolving world of data
    - Survey the services in the Azure Data Platform
    - Identify the tasks that are performed by a Data Engineer
    - Describe the use cases for the cloud in a Case Study
  - Lab : Azure for the Data Engineer
    - Identify the evolving world of data
    - Determine the Azure Data Platform Services
    - Identify tasks to be performed by a Data Engineer
    - 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.