

## COURSE: DP-200T01-A Implementing an Azure Data Solution

In this course, the students will implement various data platform technologies into solutions that are in line with business and technical requirements including on-premises, cloud, and hybrid data scenarios incorporating both relational and No-SQL data. They will also learn how to process data using a range of technologies and languages for both streaming and batch

data. The students will also explore how to implement data security including authentication, authorization, data policies and standards. They will also define and implement data solution monitoring for both the data storage and data processing activities. Finally, they will manage and troubleshoot Azure data solutions which includes the optimization and disaster recovery of big data, batch processing and streaming data solutions.

### Summary

<i>Duration:</i>	<i>3 days/ 24 hours</i>
<i>Level:</i>	<i>100*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>Bulgarian/English</i>

\* The difficulty level is consistent with the widely accepted scale of technical difficulty of training on Microsoft Corp

### AUDIENCE:

- The primary audience for this course is data professionals, data architects, and business intelligence professionals who want to learn about the data platform technologies that exist on Microsoft Azure.
- The secondary audience for this course is individuals who develop applications that deliver content from the data platform technologies that exist on Microsoft Azure.

### AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Implement various data platform technologies into solutions that are in line with business and technical requirements
- To process data using a range of technologies and languages for both streaming and batch data
- Implement data security including authentication, authorization, data policies and standards
- Define and implement data solution monitoring for both the data storage and data processing activities
- Manage and troubleshoot Azure data solutions which includes the optimization and disaster recovery of big data, batch processing and streaming data solutions

### TOPICS:

**Module 1.** Azure for the Data Engineer

**Module 2.** Working with Data Storage

**Module 3.** Enabling Team Based Data Science with Azure Databricks

**Module 4.** Building Globally Distributed Databases with Cosmos DB

**Module 5.** Working with Relational Data Stores in the Cloud

**Module 6.** Performing Real-Time Analytics with Stream Analytics

**Module 7.** Orchestrating Data Movement with Azure Data Factory

**Module 8.** Securing Azure Data Platforms

**Module 9.** Monitoring and Troubleshooting Data Storage and Processing