

## AZ-203T03-A: Develop for Azure storage

### OBJECTIVE

In this course students will gain the knowledge and skills needed to leverage Azure storage services and features in their development solutions. It covers Azure Table storage, Azure Cosmos DB, Azure Blob, and developing against relational databases in Azure.

### COURSE TOPICS

#### Module 1: Develop solutions that use Azure Table storage

Azure Table storage is a service that stores structured NoSQL data in the cloud, providing a key/attribute store with a schemaless design. Because Table storage is schemaless, it's easy to adapt your data as the needs of your application evolve.

##### Lessons

- Azure Table storage overview
- Authorization in Table storage
- Table service REST API

After completing this module, students will be able to:

- Understand the features and uses of Azure Table storage
- Know how to utilize Shared Key authorization
- Know how to use the Azure Table storage REST service to manage data

#### Module 2: Develop solutions that use Azure Cosmos DB storage

This module covers Azure Cosmos DB storage. It instructs students on how it works, how to manage containers and items, and create and update documents by using code.

##### Lessons

- Azure Cosmos DB overview
- Managing containers and items
- Create and update documents by using code

After completing this module, students will be able to:

- Understand core features and functionality of Azure Cosmos DB
- Manage containers and items
- Create and update documents

#### Module 3: Develop solutions that use a relational database

SQL Database is a general-purpose relational database managed service in Microsoft Azure that supports structures such as relational data, JSON, spatial, and XML.

##### Lessons

- Azure SQL overview
- Create, read, update, and delete database tables by using code

After completing this module, students will be able to:

- Know how the Azure SQL Database service works
- Perform database operations by using code

#### Module 4: Develop solutions that use Microsoft Azure Blob storage

Azure Blob storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that does not adhere to a particular data model or definition, such as text or binary data.

##### Lessons

- Azure Blob storage overview
- Working with Azure Blob storage

After completing this module, students will be able to:

- Understand when and why to use Azure Blob storage
- Set and retrieve Blob storage properties and metadata
- Replicate and copy Blobs

#### PREREQUISITES

- Students should have 1-2 years experience as a developer. This course assumes students know how to code and have a fundamental knowledge of Azure.
- It is recommended that students have some experience with PowerShell or Azure CLI, working in the Azure portal, and with at least one Azure-supported programming language. Most of the examples in this course are presented in C# .NET.

#### TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

#### COURSE DURATION

Bundle Course in 3 days

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

#### CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course.