



# Mildain Solutions

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## AZ-200: Azure Developer, Core Solutions Course Outline

**(4 days)**

### Overview

This course prepares you for Microsoft's Azure Developer certification exam AZ-200: Develop Core Microsoft Azure Cloud Solutions. This course is designed for developers who already know how to code in at least one of the Azure-supported languages.

The coursework covers Azure architecture, design and connectivity patterns, choosing the right storage solution for your development needs, developing solutions leveraging Azure Storage options including: Cosmos DB, Azure Storage tables, file storage, Blob, relations databases and caching and content delivery networks, creating App Service Web Apps; notification and offline sync for mobile apps; Service Fabric; serverless Azure Functions; managing bulk operations through the Batch Service API; Azure Kubernetes Service; and Azure Media Services, authentication work in Azure, and how to implement secure data solutions with: encryption; Azure Key Vault; and SSL and TLS communications.

### Related Certifications

Microsoft Certified: Azure Developer Associate

### Who Should Attend

These courses are for experienced programmers who want to develop and host solutions in Azure. Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. These course focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

### At Course Completion

After completing this course, students will be able to:

Learn common Azure application design and connectivity patterns

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Measuring and planning throughput, and data access structure

Learn about Azure networking topologies

Connect to storage in Azure

Design and implement policies to Tables

Create, read, update, and delete tables by using code

Develop for Azure Redis cache and content delivery networks

Develop solutions that use blob storage

Create an Azure app service web app by using Azure CLI, Powershell, and other tools

Create documentation for the API by using open source and other tools

Add push notifications and enable offline sync for mobile apps

Develop stateful and stateless apps on Service Fabric

Create Azure functions including bindings and triggers

Define and run scheduled bulk operations

Create an Azure Container Service (ACS/AKS) cluster using Azure CLI and Azure Portal

Develop media solutions that use AI services

Learn about the different authentication options, including multi-factor, available in Azure and how they operate

Learn about implementing access control in your solution including claims- and role-based authorization

Implement secure data solutions by using encryption, Azure confidential computing, and SSL/TLS communications

Manage cryptographic keys in Azure Key Vault

## Course Outline

### **AZ-200T01: Select the Appropriate Azure Technology Development Solution**

#### **Module 1: Select an appropriate compute solution**

##### **Lessons**

Take advantage of appropriate design and connectivity patterns



## Module 2: Design for hybrid technologies

### Lessons

Virtual networking

Hybrid networking

## Module 3: Select an appropriate storage solution

### Lessons

Address durability of data

Caching

## AZ-200T02: Develop for Azure Storage

### Module 1: Develop solutions that use Azure Storage tables

#### Lessons

Connect to Azure Storage

Design and Implement Storage tables

Query a table by using code

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

#### Lessons

Choose the appropriate API for Cosmos DB storage

Manage containers and items in Cosmos DB storage

Create, read, update, and delete documents in Azure Cosmos DB by using code

### Module 3: Develop solutions that use file storage

#### Lessons

Implement file shares for an Azure storage account

Migrating content to and between file shares



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## **Module 4: Develop solutions that use a relational database**

### **Lessons**

Create, read, update, and delete database tables by using code

Implement SQL Dynamic Data Masking

## **Module 5: Develop solutions that use Microsoft Azure Blob storage**

### **Lessons**

Create a Shared Access Signature for a blob

Asynchronously move items in Blob storage between containers

Set Blob storage container properties in metadata

## **Module 6: Develop for caching and content delivery solutions**

### **Lessons**

Azure Redis Cache

Develop for storage on CDNs

## **AZ-200T03: Develop Azure Platform as a Server Solutions**

## **Module 1: Creating App Service Web Apps**

### **Lessons**

Introduction to Web Apps

Using shell commands to create App Service Web Apps

Creating background tasks using WebJobs in Azure App Service

Using Swagger to document an API

## **Module 2: Creating mobile apps**

### **Lessons**

Getting started with mobile apps in App Service

Enabling push notifications for your app

Enabling offline sync for your app



## **Module 3: Creating an app service Logic App**

### **Lessons**

Overview of Azure Logic Apps

Creating a Logic App

Creating custom connectors for Logic Apps

Creating a custom template for a Logic App

## **Module 4: Creating an app or service that runs on Service Fabric**

### **Lessons**

Understanding Azure Service Fabric

Creating a Reliable Service

Creating a Reliable Actors app

Working with Reliable Collections

## **Module 5: Creating Azure Functions**

### **Lessons**

Azure Functions overview

Develop Azure Functions using Visual Studio

Triggers and bindings

## **Module 6: Scheduling bulk operations**

### **Lessons**

Azure Batch overview

Running Batch jobs

Using the .NET Batch Management client library

## **Module 7: Create solutions that use Azure Kubernetes Service**

### **Lessons**

Creating an Azure Kubernetes Service cluster



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Azure Container Registry

Azure Container Instances

## **Module 8: Developing apps for Azure Media Services**

### **Lessons**

Introduction to Azure Media Services

Azure Media Services v3 concepts

Upload, encode, and stream with .NET

Analyze your video with .NET

## **AZ-200T04: Implement Security in Azure Development Solutions**

### **Module 1: Implementing authentication**

#### **Lessons**

Implement authentication in applications

Implement multi-factor authentication

### **Module 2: Implementing access control**

#### **Lessons**

Claims-based authorization

Role-based access control (RBAC) authorization

### **Module 3: Implementing secure data solutions**

#### **Lessons**

Encryption options

End-to-end encryption

Implement Azure confidential computing

Manage cryptographic keys in Azure Key Vault