

Azure Developer Core Solutions (beta)

AZ200T - Version: 1

 4 days Course

Description:

This 4-days course is comprised of 4 separate 1- day courses. This course will help you prepare to the Microsoft AZ-200 exam. You can review the daily syllabuses in the links below

Day 1-Select the Appropriate Azure Technology Development Solution

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ200T01&branchName=165>

Day 2-Develop for Azure Storage

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ200T02&branchName=165>

Day 3-Develop Azure Platform as a Service Solutions

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ200T03&branchName=165>

Day 4-Implement Security in Azure Development Solutions

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ200T04&branchName=165>

Intended audience:

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.

Prerequisites:

These courses are designed for developers who already know how to code in at least one of the Azure-supported languages.

Objectives:

Learn common Azure application design and connectivity patterns

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

Topics:

Day 1

- Module 1- Select an appropriate compute solution
 - Take advantage of appropriate design and connectivity patterns
- Module 2- Design for hybrid technologies
 - Virtual networking
 - Hybrid networking
- Module 3- Select an appropriate storage solution
 - Address durability of data
 - Caching

- Measure and plan throughput and structure of data access

Day 2

- Module 1- Develop solutions that use Azure Storage tables
 - 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 DB
 - 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
 - Implement file shares for an Azure storage account
 - Migrating content to and between file shares
- Module 4- Develop solutions that use a relational database
 - 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
 - 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
 - Azure Redis Cache
 - Develop for storage on CDNs

Day 3

- Module 1- Creating App Service Web Apps
 - 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
 - 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
 - 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
 - Understanding Azure Service Fabric
 - Creating a Reliable Service
 - Creating a Reliable Actors app
 - Working with Reliable Collections
- Module 5- Creating Azure Functions
 - Azure Functions overview
 - Develop Azure Functions using Visual Studio
 - Triggers and bindings
- Module 6- Scheduling bulk operations
 - Azure Batch overview
 - Running Batch jobs
 - Using the .NET Batch Management client library
- Module 7- Create solutions that use Azure Kubernetes Service
 - Creating an Azure Kubernetes Service cluster
 - Azure Container Registry
 - Azure Container Instances
- Module 8- Developing apps for Azure Media Services
 - Introduction to Azure Media Services
 - Azure Media Services v3 concepts
 - Upload, encode, and stream with .NET
 - Analyze your video with .NET

Day 4

- Module 1- Implementing authentication
 - Implement authentication in applications
 - Implement multi-factor authentication
- Module 2- Implementing access control
 - Claims-based authorization

- Role-based access control (RBAC) authorization
- Module 3- Implementing secure data solutions
 - Encryption options
 - End-to-end encryption
 - Implement Azure confidential computing
 - Manage cryptographic keys in Azure Key Vault