

# AZ-204T00-A (DEVELOPING SOLUTIONS FOR MICROSOFT AZURE) 2023

---

## Objetivo

-

## P blico Alvo

Audience profile Students in this course are interested in Azure development or in passing the Microsoft Azure Developer Associate certification exam.

## Pr -Requisitos

Prerequisites To be successful in this course, learners should have the following:

- Hands-on experience with Azure IaaS and PaaS solutions, and the Azure Portal.
- Experience writing in an Azure supported language at the intermediate level. (C#, JavaScript, Python, or Java)
- Ability to write code to connect and perform operations on, a SQL or NoSQL database product. (SQL Server, Oracle, MongoDB, Cassandra or similar)
- Experience writing code to handle authentication, authorization, and other security principles at the intermediate level.
- A general understanding of HTML, the HTTP protocol and REST API interfaces.
- If you are new to Azure and cloud computing consider one of the following resources:
- Free online: Azure Fundamentals
- Instructor-led course: AZ-900: Azure Fundamentals

## Carga Hor ria

40 horas (5 dias).

## Conte do Program tico

### COURSE OUTLINE

#### Module 1: AZ-204: Implement Azure App Service web apps

Learn how Azure App Service functions and how to create and update an app. Explore App Service authentication and authorization, configuring app settings, scale apps, and how to use deployment slots.

- Explore Azure App Service
- Configure web app settings
- Scale apps in Azure App Service
- Explore Azure App Service deployment slots

#### Module 2: AZ-204: Implement Azure Functions

Learn how to create and deploy Azure Functions. Explore hosting options, bindings, and triggers.

- Explore Azure Functions
- Develop Azure Functions

#### Module 3: AZ-204: Develop solutions that use Blob storage

Learn how to create Azure Blob storage resources, manage data through the blob storage lifecycle, and work with containers and items by using the Azure Blob storage client library V12 for .NET.

- Explore Azure Blob storage
- Manage the Azure Blob storage lifecycle
- Work with Azure Blob storage

#### Module 4: AZ-204: Develop solutions that use Azure Cosmos DB

Learn how to create Azure Cosmos DB resources with the appropriate consistency levels, and perform data operations by using the .NET SDK V3 for Azure Cosmos DB.

- Explore Azure Cosmos DB
- Work with Azure Cosmos DB

#### Module 5: AZ-204: Implement containerized solutions

Learn how to create and deploy containerized solutions to Azure by using the Azure Container Registry, Azure Container Instances, and Azure Container Apps.

- Manage container images in Azure Container Registry
- Run container images in Azure Container Instances
- Implement Azure Container Apps

#### Module 6: AZ-204: Implement user authentication and authorization

Learn how to implement authentication and authorization to resources by using the Microsoft identity platform, Microsoft Authentication Library, shared access signatures, and use Microsoft Graph.

- Explore the Microsoft identity platform
- Implement authentication by using the Microsoft Authentication Library
- Implement shared access signatures
- Explore Microsoft Graph

#### Module 7: AZ-204: Implement secure Azure solutions

Learn how to more securely deploy apps in Azure by using Azure Key Vault, managed identities, and Azure App Configuration.

- Implement Azure Key Vault
- Implement managed identities
- Implement Azure App Configuration

#### Module 8: AZ-204: Implement API Management

Learn how the API Management service functions, how to transform and secure APIs, and how to create a backend API.

- Explore API Management

#### Module 9: AZ-204: Develop event-based solutions

Learn how to build applications with event-based architectures by integrating Azure Event Grid and Azure Event Hubs in to your solution.

- Explore Azure Event Grid
- Explore Azure Event Hubs

#### Module 10: AZ-204: Develop message-based solutions

Learn how to build applications with message-based architectures by integrating Azure Service Bus and Azure Queue Storage in to your solution.

- Discover Azure message queues

#### Module 11: AZ-204: Troubleshoot solutions by using Application Insights

Learn how to instrument apps to enable Application Insights to monitor performance and help troubleshoot issues.

- Monitor app performance

#### Module 12: AZ-204: Implement caching for solutions

Learn how to improve the performance and scalability of your applications by integrating Azure Cache for Redis and Azure Content Delivery Network in to your solution.

- Develop for Azure Cache for Redis
- Develop for storage on CDNs