

PROFESSIONAL COURSE OUTLINE

Microsoft

AZ-204T00

Develop Solutions for Microsoft Azure

This course teaches developers how to create end-to-end solutions in Microsoft Azure. Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities. Students will also learn how to connect to and consume Azure services and third-party services, and include event- and message-based models in their solutions. The course also covers monitoring, troubleshooting, and optimizing Azure solutions.

Software Dev

Intermediate

Azure

PROGRAM CODE

AZ-204T00

DELIVERY

Virtual, On-site, or Hybrid

DURATION

5 days

CERTIFICATION

Microsoft Certified: Azure Developer Associate

AUDIENCE PROFILE

Who This Program Is For

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

PROGRAM SUMMARY

What This Course Covers

Official Microsoft Learn developer course covering App Service, Functions, storage, Cosmos DB, containers, security, APIs, and event-driven Azure solutions.

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.



Plan the next session

We can tune this outline around your delivery goals and team mix.

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MODULE 1

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

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MODULE 2

Implement Azure Functions

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

- Explore Azure Functions
- Develop Azure Functions

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MODULE 3

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

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MODULE 4

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

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MODULE 5

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

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MODULE 6

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

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MODULE 7

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

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MODULE 8

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

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MODULE 9

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

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MODULE 10

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

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MODULE 11

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



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