

MICROSOFT OFFICIAL CURRICULUM

Microsoft

# Develop Solutions for Microsoft Azure

AZ-204T00

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

Software Dev

Intermediate

Azure

DURATION

5 days

LEVEL

Intermediate

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

Microsoft Certified: Azure Developer Associate

AUDIENCE PROFILE

## Built for these roles

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

OVERVIEW

## Executive overview

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.

PROGRAM OUTCOMES

## Capabilities your teams will gain

- Implement web, serverless, and container-based Azure solutions
- Work with Azure storage, messaging, and integration services
- Secure applications with identity, Key Vault, and managed identities
- Monitor and troubleshoot Azure applications effectively

TRAINING PROVIDER


**VNode ITeS**


MICROSOFT CERTIFIED TRAINER

vnodeites.com

[linkedin.com/company/vnodeites](https://www.linkedin.com/company/vnodeites)

TALK TO US

 [info@vnodeites.com](mailto:info@vnodeites.com)

 +91 9419 11 4792

 WhatsApp · +91 9419 11 4792

 +91 7780 81 1685

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DLF Cyber City, Gurugram

Haryana — India

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## ENTERPRISE CUSTOMIZATION

### Enterprise customization

Tailor this program to your organization's priorities: Helps development teams build secure, scalable Azure applications using modern cloud-native services, identity patterns, messaging, and monitoring practices.

#### Customization options

- Align labs to your app architecture and delivery stack
- Add deeper API, eventing, or container platform focus
- Extend with DevOps and deployment acceleration patterns

## CURRICULUM

### Curriculum roadmap

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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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-  [info@vnodeites.com](mailto:info@vnodeites.com)
-  +91 9419 11 4792
-  WhatsApp · +91 9419 11 4792
-  +91 7780 81 1685

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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

PRIVATE DELIVERY

## Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

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