

## PROFESSIONAL COURSE OUTLINE

Microsoft

AI-200

# Azure AI Cloud Developer Associate (beta)

This course teaches developers how to create, monitor, and troubleshoot AI solutions on Microsoft Azure. Students will learn how to implement Azure compute and containerization patterns to host applications, build serverless APIs with Azure Functions, and integrate services using event driven and message based architectures such as Azure Service Bus and Event Grid. The course also covers working with Azure data services that support AI workloads, including designing and querying solutions with Cosmos DB for NoSQL, Azure Database for PostgreSQL with pgvector, and Azure Managed Redis for caching, streaming, and vector search. By the end of the course, developers will be able to connect services, orchestrate AI workflows, and build secure, scalable, and observable AI driven applications on Azure.

Software Dev

Intermediate

Azure

## PROGRAM CODE

AI-200

## DELIVERY

Virtual, On-site, or Hybrid

## DURATION

5 days

## CERTIFICATION

Microsoft Certified: Azure AI Cloud Developer Associate (beta)

## AUDIENCE PROFILE

## Who This Program Is For

This course is designed for developers who build backend and AI driven applications on Azure and need practical skills in containerized compute, data services for AI, event driven workflows, and application security and monitoring.

## PROGRAM SUMMARY

## What This Course Covers

As a candidate for this Microsoft Certification, you're responsible for contributing to all phases of implementing AI solutions on Azure, with an emphasis on back-end services and components.

## 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.



### Plan the next session

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

## TALK TO US

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## 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.

1

## MODULE 1

**Implement container application hosting on Azure**

Learn how to deploy, configure, and troubleshoot containerized applications on Azure.

- Store and manage containers in Azure Container Registry
- Deploy containers to Azure App Service

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## MODULE 2

**Deploy and manage apps on Azure Container Apps**

Learn how to deploy, manage, and scale containerized applications on Azure Container Apps.

- Deploy containers to Azure Container Apps
- Manage containers in Azure Container Apps
- Scale containers in Azure Container Apps

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## MODULE 3

**Deploy and monitor applications on Azure Kubernetes Service**

Learn how to deploy, configure, and troubleshoot apps on Azure Kubernetes Service.

- Deploy applications to Azure Kubernetes Service
- Configure applications on Azure Kubernetes Service
- Monitor and troubleshoot applications on Azure Kubernetes Service

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## MODULE 4

**Develop AI solutions with Azure Cosmos DB for NoSQL**

Learn how to develop AI solutions using Azure Cosmos DB for NoSQL, including vector search and query optimization for RAG pipelines and semantic retrieval.

- Build queries for Azure Cosmos DB for NoSQL
- Implement vector search on Azure Cosmos DB for NoSQL
- Optimize query performance for Azure Cosmos DB for NoSQL

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## MODULE 5

**Develop AI solutions with Azure Database for PostgreSQL**

Learn how to develop AI solutions using Azure Database for PostgreSQL, including vector search with pgvector for RAG pipelines and semantic retrieval.

- Build and query with Azure Database for PostgreSQL
- Implement vector search with Azure Database for PostgreSQL
- Optimize vector search in Azure Database for PostgreSQL

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## MODULE 6

**Enhance AI solutions with Azure Managed Redis**

Learn how to use Azure Managed Redis to enhance your AI solutions, including caching strategies, data operations, event messaging, and vector storage.

- Implement data operations in Azure Managed Redis
- Implement event messaging with Azure Managed Redis
- Implement vector storage in Azure Managed Redis

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## MODULE 7

**Integrate backend services for AI solutions**

Learn how to integrate backend services for AI solutions on Azure.

- Queue and process AI operations with Azure Service Bus
- Develop event-driven AI workflows with Azure Event Grid
- Build serverless AI backends with Azure Functions

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## MODULE 8

**Manage application secrets and configuration for AI solutions**

Learn how to manage application secrets and configuration for AI solutions on Azure using Azure Key Vault and Azure App Configuration.

- Manage application secrets with Azure Key Vault
- Manage application settings with Azure App Configuration

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## MODULE 9

**Observe and troubleshoot apps on Azure**

Learn how to instrument distributed applications with OpenTelemetry and analyze telemetry data with Azure Monitor to observe and troubleshoot AI solutions on Azure.

- Instrument an app with OpenTelemetry
- Analyze app telemetry with logs and metrics

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