

# Azure OpenAI Application Development

Applied Technology Academy

Learn how to build and deploy cloud-hosted applications on Azure. The course focuses on application delivery, service integration, and runtime behavior. AI is part of the course workflow throughout.

| LEVEL        | DURATION | COURSE CODE | DELIVERY       |
|--------------|----------|-------------|----------------|
| Intermediate | 2-3 days | MA-90-2     | Instructor-led |

## Course Overview

- Azure application development and deployment patterns.
- Application delivery, service integration, and runtime behavior.

## Course Outline

- **Unit 1: Foundations:**
  - core concepts and terminology
- **Unit 2: Application:**
  - guided practice and labs
- **Unit 3: Handoff:**
  - troubleshooting, review, and next steps

## Prerequisites

Participants should have:

- working familiarity with the target language, framework, or platform
- basic comfort using AI tools is helpful but not required unless specified
- basic troubleshooting skills
- access to the required tools or accounts before class

## Who Should Attend

- Developers building AI-enabled applications on Azure.
- Technical teams exploring AI-assisted workflows.
- Teams that want a practical path into AI application delivery.

## What You'll Learn

By the end of this course, participants will be able to:

- use AI tools in the normal development workflow

- design practical AI-enabled application experiences
- evaluate output quality and failure modes
- apply guardrails, documentation, and governance habits
- move from experiment to a production-minded implementation plan

## What the Course Covers

In Scope:

- AI-assisted development workflows
- prompting and model use
- evaluation and quality controls
- guardrails and production concerns

Not Covered:

- deep model training and research
- math-heavy ML theory unless requested
- enterprise governance beyond the course scope

## Hands-On Work

Representative Labs:

- build a simple AI-assisted workflow
- test prompts and outputs
- evaluate quality and edge cases
- adjust guardrails for a team use case

Practice and Discussion:

- Guided practice with checkpoints
- Scenario discussion using realistic examples
- Review of trade-offs and next steps

## Environment and Tools

- Access to the chosen AI tool or platform
- Browser, editor, and lab environment
- Sample app or notebook workspace
- Optional enterprise policy guidance

## Customization Options

- role-based track variations
- industry or domain-specific examples
- mixed-experience pacing adjustments
- accelerated or extended delivery formats

## Next Steps

- production AI engineering path
- AI security follow-on
- agentic AI specialization
- team rollout and governance workshop

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