APPLIED TECHNOLOGY ACADEMY

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Cloud Application Development on Azure with Node.js and TypeScript

Applied Technology Academy

Learn how to build modern web applications with current front-end and full-stack patterns. The course combines practical examples, guided exercises, and hands-on labs. AI-assisted debugging, deployment support, and architecture review are included where appropriate.

LEVEL	DURATION	COURSE CODE	DELIVERY
Intermediate	**3–5 days**	**MA-74-2**	**Instructor-led**

Course Overview

- Modern web application development for browser-based and full-stack experiences.
- Current front-end practices and guided hands-on labs.

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
- experience deploying or running applications is helpful
- basic troubleshooting skills
- access to the required tools or accounts before class

Who Should Attend

- Developers moving into Azure-hosted application delivery.
- Teams that need cloud-native patterns.
- Learners preparing to connect app work with deployment and service integration.

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What You'll Learn

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

- design and build Azure-hosted application components
- integrate services, configuration, and deployment patterns
- reason about runtime behavior in cloud environments
- apply AI-assisted debugging and support workflows
- translate cloud patterns into team-specific implementation choices

What the Course Covers

In Scope:

- Azure application development patterns
- deployment and runtime behavior
- service integration and configuration
- AI-assisted cloud troubleshooting

Not Covered:

- Azure administration or infrastructure operations
- platform operations training
- network or identity admin deep dives unless customized

Hands-On Work

Representative Labs:

- deploy a small Azure-hosted app
- wire up a cloud service dependency
- debug a runtime issue
- compare deployment options

Practice and Discussion:

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

Environment and Tools

- Azure subscription or lab tenant
- Editor and deployment tooling
- Sample app project

- Identity and service access for labs

Customization Options

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

Next Steps

- cloud security or DevOps follow-on
- API development path
- Azure architecture extension
- team-specific modernization workshop

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.