

LLM Evaluation and Testing

Applied Technology Academy

Learn practical testing habits that help teams ship more reliable software. The course focuses on test design, failure analysis, and sustainable quality practices. AI is part of the course workflow throughout.

LEVEL	DURATION	COURSE CODE	DELIVERY
Intermediate	1-2 days	MA-93-2	Instructor-led

Course Overview

- Practical testing habits that support more reliable software.
- Test design, failure analysis, and sustainable quality practices.

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 and QA-minded developers.
- Teams that want better test habits.
- Learners who need a practical route into maintainable testing.

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

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.