

AI for Software Testing

Course ISI-1603

Instructor-led, Hands-on/Demo

Introduction

The future of software testing lies at the intersection of human ingenuity and technological leverage. Our AI for Software Testing course is an immersive and interactive journey to prepare experienced software testing professionals for the AI-empowered future. Through hands-on exercises with leading AI agents and tools, gain first-hand experience generating key artifacts from system test plans to individual test cases. AI can automate the boring and repetitive work of generating test cases, but it can do much more. You will learn how to use AI to evaluate existing tests, structure systems for more effective testing, interpret results, and maintain traceability from requirements to tests. Whilst balancing AI's power to create testing artifacts with human judgment, you will discover how AI can help streamline the testing process through increased test automation.

In this class you will learn how to:

- Develop test cases, executable automated test scripts, and test suites with the assistance of AI
- Evaluate strengths and weaknesses of AI-created test artifacts
- Test against specifications more thoroughly with AI augmentation
- Employ AI to design combinatorial and exploratory test sets
- Analyze test results and defect reports using AI.
- Develop test plans for non-functional requirements with AI
- Incorporate agile user stories into testing using AI
- Utilize AI to amplify manual testing efforts

Who Can Benefit:

- Testers, Test Analysts, and Developers wanting to utilize AI to automate and assess testing tasks and artifacts.
- Project Managers, Business Analysts, and leaders wanting to accelerate the testing process while balancing responsible and ethical oversight.
- Anyone looking to be skilled in AI augmentation and innovation.

To get the most out of this course, it is recommended that participants have foundational knowledge of software testing through formal training like our Software Testing Foundations or Agile Testing courses or have relevant experience working in a software testing context.

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>

At Course Completion

After completing this course, students will be able to:

- Introducing Generative AI for Software Testing
- Let's Test with AI
- Modelling for Testing
- Test Planning with AI
- Testing Single Functions
- Evaluate Tests
- Activities and Processes
- Planning the End Game
- Stories and Scenarios
- Automation
- Quality Attributes & Non-functional Requirements
- Evaluating AI Readiness

Prerequisites

Prior to attending, it is recommended that participants have foundational knowledge of software testing through formal training or have relevant experience working in a software testing context.