

AI FOR SOFTWARE TESTING



DURATION

In Person 2 days

LiveOnline 3 sessions of 4.5 hours

CERTIFICATION

An AI for Software Testing digital badge will be available upon successful completion of the course from Skills Development Group.



PDU's

This course will contribute 14 PMI® Professional Development Units (PDUs) towards your chosen certification (14 Business Acumen).



ARE YOU LOOKING TO EXPAND YOUR SKILLS IN USING ARTIFICIAL INTELLIGENCE (AI) TO TRANSFORM YOUR SOFTWARE TESTING AND BECOME A LEADER IN LEVERAGING EMERGING TECHNOLOGIES?

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 artefacts from system test plans to individual test cases. Sure, AI can automate the boring and repetitive work of generating test cases, but it can do so 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. While balancing AI's power to create testing artefacts with human judgment, you will discover how AI can help streamline the testing process through increased test automation.

LEARNING OUTCOMES

During this course, you will learn about:

- Developing test cases, executable automated test scripts and test suites with the assistance of AI
- Evaluating strengths and weaknesses of AI-created test artefacts
- Testing against specifications more thoroughly with AI augmentation
- Employing AI to design combinatorial and exploratory test sets
- Analysing test results and defect reports using AI
- Developing test plans for non-functional requirements with AI
- Incorporating agile user stories into testing using AI
- Utilizing AI to amplify manual testing efforts

AI FOR SOFTWARE TESTING

INTENDED FOR

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

PREREQUISITES

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 course or have relevant experience working in a software testing context.

CONTENT

Topics and exercises covered in the course include:

The Case for AI in Testing Let's Test Testing Single Functions

- Business Rules
- Equivalence Partitioning & Boundary Values

Test Data

- Gherkin Language & Test Independence

Sequences & Scenarios

- UI Navigation
- Top-Down, Bottom-Up

Requirements & Test Scenarios Test Strategy & Planning

- Testing Quadrants
- Test Strategy Canvas

Validating Quality Attributes

- Non-Functional Requirements
- Visual Validation & AU for UI Improvements
- Accessibility Test

Bug Analysis & Reporting

- Assessing Application Risks
- Evaluating Bug Reports

Exploratory Testing Test Automation

- Software Architecture
- Automation Challenges

Lecturing is kept to the minimum necessary, and most of the learning is achieved by applying the practices and techniques in group exercises. Our LiveOnline delivery features an instructor who is 100% live, and interaction and learning objectives are the same as our in-person classes, with the added benefit of taking this course from your home or office. Since this class is delivered over half-days, it allows for greater flexibility and time for other work or activities.