AI-Powered Behavior-Driven Development (BDD)

1 day · approx. 8 hours | Applied workshop | English | Live virtual or onsite

From refined requirements to automated tests and living documentation

Create business-readable test specifications that guide development, run as automated tests and generate living documentation. Learn how to use BDD and AI to turn refined requirements into test scenarios that business and technical roles can understand and verify together. Experience how you can **reduce the repetitive effort of writing and reviewing test scenarios and accelerate test automation**, making automated testing accessible and practical **without replacing shared understanding, refinement, collaboration, or human review**.

Build a shared, repeatable AI-powered approach to Behavior-Driven Development by leveraging BDD, custom Agent Skills, and GitHub Copilot in repeatable workflows where business people review and approve AI-generated test scenarios, while developers review and own AI-generated code.

Leveraging Agent Skills

Agent Skills capture expert knowledge, team standards, quality checks, and review steps in reusable instructions for AI agents. They help your team to effectively move from isolated AI prompts toward reusable, governed AI-assisted delivery workflows. Teams create, maintain, and improve the skills as shared assets, so agreed practices and improvements are available and consistently applied across the team. Agent Skills guide GitHub Copilot through structured, repeatable workflows where humans steer and review AI proposals before approving changes.

Who should attend

Business Analysts, Requirements Engineers, Product Owners, Testers, QA Specialists and Developers involved in test automation. People coordinating testing, Scrum Masters and Agile Coaches can also attend.

What participants will learn using custom agent skills

- **Accelerate test automation** and reduce the **repetitive effort of writing and reviewing test scenarios**.
- Share expert knowledge and apply team standards, quality checks and review steps.
- Turn refined requirements and concrete examples into clear Gherkin feature files, including Scenario Outlines.
- Review, improve and approve scenarios against agreed quality standards and expected business behavior.
- Compose executable scenarios from prepared steps or generate and review missing step definitions in .NET or Java.
- Run scenarios against the prepared application and interpret failures in business terms.
- Generate living documentation and explain how executable scenarios support CI feedback and work-item traceability.

Course outline

- Custom skills as shared team assets: expert knowledge, team standards and continuous improvement
- BDD foundations, refined requirements and Gherkin quality
- AI-assisted scenario formulation and review
- Automation with prepared steps and AI-generated step definitions
- Test execution, CI feedback, living documentation and work-item traceability

Practical work and outputs

Guided labs take about half the day. Participants create and review Gherkin feature files, run automated scenarios against a prepared application and generate documentation. Participants without programming experience use prepared steps. Developers generate and review the code connecting new scenario steps to the application. Outputs include reviewed feature files, test results and a stakeholder-readable documentation snapshot.

Lab environment and materials

Prepared browser lab with GitHub Copilot and Azure DevOps, Agilist Agent Skills, a running application, guided exercises, learning materials and practical references.

Agent Skills: Agilist develops and maintains these skills. Participants receive them for use under a license.

Toolset: GitHub Copilot · Azure DevOps MCP Server · Agilist Agent Skills · VS Code in GitHub Codespaces · BDD tooling (.NET or Java)

Prerequisites

Basic familiarity with requirements, examples and testing. No previous Azure DevOps, BDD, Gherkin, test automation, Agent Skills or GitHub Copilot experience is required. The developer option requires basic C# or Java skills. You need a laptop with internet access. No local installation is needed.

How Agilist's workshops fit together

Agilist's AI training portfolio includes focused, hands-on workshops that can be taken independently or combined into a connected learning journey. Learn more on the AI-Powered Behavior-Driven Development training page. Strengthen the earlier part of the journey with the complementary AI-Powered Backlog Management workshop, which helps teams clarify requirements, concrete examples, and acceptance criteria before turning them into executable specifications. Download its course overview (PDF).