Spec Driven Development for Non Developers Training

Duration: **1 Day**

BILGINC IT Academy
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Spec Driven Development for Non Developers is designed for professionals who want a practical and repeatable way to turn product ideas into clearer, structured definitions using **spec-driven development** and AI tools.

Participants learn how to take an early-stage or loosely defined product concept and develop it into a structured specification that AI tools can interpret to generate consistent, high-quality product artefacts.

Through demonstrations, guided exercises, and practical workflows, the course explores how clarity, structure, and constraints affect the quality of AI-generated results. Rather than relying on one-off or unstructured prompting, participants learn a more disciplined approach for producing user flows, user stories, acceptance criteria, and task breakdowns with greater consistency and alignment.

By the end of the day, participants will have:

- A structured product specification developed from an initial product idea,
- A collection of AI-generated product artefacts aligned with that specification,
- A repeatable workflow for reviewing, refining, and improving generated outputs,
- Practical techniques for reducing ambiguity and creating stronger product definitions.

Prerequisites

Participants should have:

- A basic awareness of AI tools,
- Experience working with product requirements, user stories, or business analysis.

No coding experience is required.

Who Should Attend

This course is particularly suitable for:

- Product Managers who want greater clarity and consistency in product definition,
- Product Owners responsible for backlog quality and delivery readiness,
- Business Analysts moving towards product-focused roles,
- Professionals who use AI tools to support product or requirements-related activities.

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What You Will Learn

By completing this course, participants will be able to:

- Distinguish between unstructured prompting and specification-first approaches,
- Create clear, lightweight product specifications that AI tools can interpret reliably,
- Generate and assess core product artefacts with AI tools,
- Apply the SPTI (Specify, Plan, Tasks, Iterate) workflow within a product context,
- Recognise and correct misalignment in AI-generated outputs,
- Improve consistency, traceability, and quality during early-stage product work.

Training Outline

Introduction

- Welcome, course context, and objectives
- Review participant goals and expectations
- Introduction to the spec-driven approach

Module 1: Foundations of Spec-Driven Thinking

This module examines common issues with unstructured prompting and introduces specification-led thinking as a more disciplined approach.

- Common problems caused by vague or unstructured prompts
- How structure and constraints influence AI-generated outputs
- The role of specifications in reducing ambiguity
- **Demonstration:** Compare results from unstructured and structured inputs

Module 2: Writing Effective Product Specifications

Participants learn how to create lightweight, practical specifications that allow AI tools to interpret product intent more reliably.

- Core components of a lightweight product specification
- Define scope, user needs, flows, and constraints
- Write acceptance criteria that support reliable outputs
- Use templates to standardise how product intent is expressed

Module 3: Spec-Kit Demonstration – From Specification to Artefacts

This module demonstrates how a structured product specification can be transformed into practical product artefacts using Spec-Kit.

- Live walkthrough of entering a structured specification into Spec-Kit
- Generate core product artefacts:
  - User flows
  - User stories
  - Acceptance criteria
  - Task breakdowns

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- Understand traceability between the original specification and generated outputs
- Identify gaps and inconsistencies within generated artefacts

Module 4: Applying the SPTI Workflow in Practice

Participants apply the SPTI approach to turn specifications into actionable product work and use AI tools in a more systematic workflow.

- Introduction to the SPTI loop: **Specify, Plan, Tasks, Iterate**
- Translate specifications into actionable product work
- Use AI tools to support backlog structuring and refinement
- Generate test scenarios to validate product intent

Wrap-Up and Reflection

The course concludes with a review of the methods and workflows covered during the day, giving participants an opportunity to consider how spec-driven practices can be applied within their own product and requirements processes.