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Spec Kit Training

3 days (21 hours)

Overview

Spec Kit is a spec-driven development framework for structuring your projects with specifications, planning, and guided execution. This training helps you transform a product vision into a clear, reproducible, and quality-oriented workflow.

With Spec Kit, you'll learn how to formalize a requirement before coding, break down the work into coherent steps, and better manage the development process with a development lead. The approach emphasizes clear objectives, traceability of decisions, and continuity between specification and implementation.

Our Spec Kit training will enable you to master the framework's essential mechanisms, from project initialization to the generation of work artifacts. You'll learn how to organize a Spec, Plan, and Tasks cycle to ensure a clear understanding of the requirement and a reliable implementation.

You'll learn how to structure actionable deliverables, collaborate more effectively with a code assistant, and adapt the method to different project contexts. The training also emphasizes best practices for scoping, quality, and maintenance to ensure the approach is sustainable in a professional environment.

By the end of the training, you'll be able to use Spec Kit to improve a project's readability, speed up the preparation phases, and strengthen the alignment between business intent and technical implementation.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the principles of spec-driven development and Spec Kit's role.
- Initialize and structure a project using basic commands and artifacts.
- Write a clear, actionable, and requirements-driven specification.
- Build a coherent implementation plan based on a business requirement.
- Break down the work into actionable and well-organized tasks.
- Apply best practices for quality, tracking, and iteration on a Spec Kit-guided project.

Target Audience

- Software Developer
- Technical Lead
- IT Project Manager
- Product Owner
- Software Architect

Requirements

- Basic knowledge of software development and the project lifecycle.
- Experience working in an environment using Git and managing Markdown files is a plus.
- Understanding of how to use a code assistant or an AI development agent.
- Basic understanding of functional scoping, task breakdown, and reading specifications.

Technical Prerequisites

- A recent computer with local installation privileges and sufficient disk space.
- Stable Wi-Fi or Ethernet internet connection for installation and updates.
- Python 3.11+ installed on the work machine.
- uv or pipx available for installing tools.
- A code editor or IDE, such as VS Code, as well as a working terminal.

Spec Kit Training Program

[Day 1 - Morning]

Introduction to Spec Kit and its approach

- Understand the objectives of spec-driven development and its value for AI-driven projects.
- Identify the key artifacts, from the initial requirement through to implementation.
- Explore the progression from Spec to Plan to Tasks.
- Identify the benefits in terms of clarity, traceability, and quality.
- Discover the framework's vocabulary and working conventions.
- Hands-on workshop: Analyze a simple use case and extract the initial specification elements.

[Day 1 - Afternoon]

Install and set up a project

- Set up the local environment with the tools required for Spec Kit.
- Understand the prerequisites related to Python, UV, and the development agent.
- Launch the project initialization and verify the generated structure.
- Identify the files and folders created during bootstrap.
- Verify that the selected integration is configured correctly.
- Hands-on workshop: Initialize a demo project and validate its initial directory structure.

[Day 2 - Morning]

Write a usable specification

- Transform a business requirement into a structured specification.
- Formulate clear, measurable, and unambiguous objectives.
- Define the functional scope and constraints of the project.
- Organize the information to make it easy for the agent and the team to read.
- Identify areas of uncertainty and points that need clarification before proceeding.
- Hands-on workshop: Drafting a first version of the specification based on a given requirement.

[Day 2 - Afternoon]

Develop an implementation plan

- Translate the specifications into a structured and logical plan.
- Break the work down into coherent, sequential steps.
- Prioritize dependencies between functional blocks.
- Prepare a sequence of tasks compatible with an iterative workflow.
- Anticipate checkpoints, validations, and success criteria.
- Hands-on workshop: Convert a specification into a detailed plan with prioritized steps.

[Day 3 - Morning]

Break down into actionable tasks

- Move from the plan to concrete, executable tasks.
- Define tasks that are specific enough to guide implementation.
- Limit unnecessary dependencies between the actions to be performed.
- Ensure the work remains clear to both the individual and the team.
- Prepare a sequence that aligns with review and adjustment cycles.
- Hands-on workshop: Create a prioritized task list based on an existing plan.

[Day 3 - Afternoon]

Standardize and sustain usage

- Integrate specifications, plans, and tasks into a sustainable workflow.
- Apply quality best practices to ensure the reliability of deliverables.
- Adapt Spec Kit to different project contexts and different stakeholders.
- Identify limitations, usage risks, and areas requiring attention.
- Develop a reusable working method for future projects.
- Hands-on workshop: Simulate a complete mini-cycle, from the spec to the finalized task list.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Assessment at the Start of Training

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.