Cloud Contraptions
TRAINING & CONSULTING

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AI-DLC and Spec-Driven Development for Product Owners and Business Analysts

Class Duration

7 hours of live training delivered in 1 day.

Student Prerequisites

- Experience as a product owner, business analyst, product manager, or project manager on a software delivery team
- Familiarity with Agile delivery, backlogs, and user stories
- Basic experience with an AI chat assistant is helpful
- No coding experience required

Target Audience

Product owners, business analysts, product managers, and project managers whose teams are adopting AI coding agents, AI-DLC, or spec-driven development. The course complements two beta certifications for these roles: AWS Certified AI Business Strategist (AIB-C01) and GitHub Certified: Agentic AI Business Professional (GH-700). Teams can continue with *AI-Driven Development Life Cycle (AI-DLC)* or *Spec-Driven Development with AI Coding Agents*.

Description

When AI agents draft requirements, designs, and code, the people who own intent and approvals decide what gets built. This one-day course prepares product owners and business analysts for that role, with no coding required. It covers where product roles sit in AI-DLC, from Ideation through Mob Elaboration and approval gates. Students practice writing EARS requirements and acceptance criteria, and reviewing agent-generated specs and plans. The course also shows Kiro specs and GitHub Spec Kit from a product seat, plus traceability and spec drift.

Learning Outcomes

- Explain how AI-DLC changes product owner and analyst work.
- Describe AI-DLC phases, intents, units of work, and bolts.

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- Decide at approval gates whether to approve or request changes.
- Take part in Mob Elaboration with the delivery team.
- Write EARS requirements and acceptance criteria.
- Turn user stories into traceable spec requirements.
- Review agent-generated requirements, designs, and task plans.
- Work in Kiro specs and Spec Kit projects without writing code.
- Trace requirements to tasks, code, and tests.
- Recognize and resolve spec drift.
- Refine a backlog with AI.
- Define metrics that show whether AI-driven delivery works.

Training Materials

Comprehensive courseware is distributed online at the start of class. All students receive a downloadable MP4 recording of the training.

Software Requirements

A web browser and read access to the team’s repository host, such as GitHub, for viewing specs and pull requests. The instructor demonstrates Kiro and a GitHub Spec Kit project, and participants with access can follow along. No coding or local development setup is required.

Training Topics

AI-Driven Delivery for Product Roles

- When AI drafts the work
- AI-assisted, AI-autonomous, and AI-driven
- Specs as the statement of intent
- Spec-first, spec-anchored, and spec-as-source
- What stays the product role’s job

Where Product Owners and Analysts Sit in AI-DLC

- The AI-DLC phases
- Intents vs. epics
- Units of work and bolts
- Ideation and intent capture
- Feasibility and scope definition
- Inception and requirements analysis

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- User stories and delivery planning
- Answering stage questions
- Approve or Request Changes
- Answer modes

Mob Elaboration

- Preparing an intent
- Starting from a PRD or vision
- Validating AI questions as a team
- Resolving open questions in the room
- The unit dependency graph
- Reviewing the bolt plan
- Handing off to Construction

Writing Requirements Agents Can Execute

- Separating what from how
- Testable functional requirements
- Measurable success criteria
- EARS requirement patterns
- Event-driven WHEN requirements
- State-driven WHILE requirements
- Unwanted behavior with IF and THEN
- Acceptance criteria as WHEN/THEN scenarios
- User stories with traceable IDs
- Constraints and open questions
- Vague and oversized specs

Reviewing Agent-Generated Artifacts

- Reading AI-drafted requirements critically
- Reviewing user stories and domain models
- Reviewing designs for behavior and rules
- Checking task plans for coverage
- Spotting scope creep
- Clarification questions and checklists
- Weighing reviewer-agent findings
- Requesting precise changes

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Kiro Specs and GitHub Spec Kit Without Writing Code

- Kiro `requirements.md`, `design.md`, and `tasks.md`
- Requirements-first and design-first workflows
- When a Quick Spec is enough
- Bugfix specs
- The Spec Kit constitution
- `/speckit.specify` and `/speckit.clarify`
- `/speckit.checklist` for requirements quality
- Answering `[NEEDS CLARIFICATION]` markers
- Reviewing spec changes in pull requests

Traceability, Spec Drift, and Backlog Refinement

- Tracing requirements to tasks and tests
- How specs and code drift
- Catching drift as a product owner
- Living specs and change proposals
- Splitting and sizing stories with AI
- Finding gaps and duplicates
- Intents on a Scrum or SAFe backlog

Metrics and Governance

- Gate wait time and rework
- Request Changes rate
- Open questions and convergence passes
- The audit trail of approvals
- Workflow profiles and depth levels
- Regulated changes
- Confidential data in prompts
- Human accountability for requirements

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