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## Behaviour-Driven Development (3 days)

### Course overview

This course explains what behaviour-driven design is all about, describes why it's a beneficial approach to application specification and development, and leads you through the process of how to do BDD in practice.

### What you'll learn

- What is BDD
- Defining requirements
- Feature analysis
- Automation, management, and reporting
- Testable architecture

### Prerequisites

- Software development roles catered for: product owners, architects, functional managers, test managers, developers

### Course details

- **Introduction to BDD:** BDD vs TDD; BDD and requirements analysis; Key principles and features of BDD; Benefits of BDD
- **Defining Requirements:** Defining a vision statement; Specifying business goals; Identifying stakeholders; Identifying capabilities
- **Specifying Features:** Overview of features; Features vs. user stories; Illustrating features with examples
- **Creating Executable Scenarios:** How to write executable scenarios; Using tables; Do's and don't's; Organizing features
- **Automating Scenarios:** Automation options; Overview of Cucumber; Other tool possibilities
- **Automating Acceptance Tests:** What makes a good acceptance test; Setting up a process for automating acceptance tests; Defining business rules, business flow, and the technical layer
- **Acceptance Tests for UI Requirements:** Pros and cons of UI testing; Using Selenium WebDriver; Page objects
- **Acceptance Tests for Non-UI Requirements:** Controllers, business logic, and services; Non-functional requirements
- **Project Management and Reporting:** Feature readiness and coverage; The importance of living documentation; Using Atlassian Confluence, Jira and Xray for Jira

- **Managing the Build Process:** Continuous integration; Continuous delivery; Deployment
- **Testable Architecture:** Key concepts of testable architecture; Benefits of testable architecture; Testable Architecture methodology; Examples