

Implementing Behavior-Driven Development (BDD)



- Learn Behavior-Driven Development (BDD) through hands-on experience
- Build the right thing through enhanced communication
- Improve code coverage and quality in the code base
- Increase innovation, team collaboration, and product quality while lowering risk

As a pillar of agile development, implementing BDD will allow your organization to spend more time focused on quality up front and reduce the cost of defects found later in the development lifecycle. This course will coach your team in how to transition to this innovative way of working together and show you how to continuously grow your skills while leading to measurable product quality improvements.

In this highly interactive course, you will learn the key concepts of BDD and leave with the capabilities to practice and promote BDD at your organization.

Who Should Attend

This course will benefit everyone who is involved in the definition, development, and quality assurance of software-related products including customers, product owners, business analysts, SMEs, developers, and testers.

We recommend basic familiarity with concepts of the agile methodology. Our [Agile Fundamentals - ICAgile Certified Professional \(ICP\) \[1\]](#) class is an excellent opportunity to ensure that your team's understanding of those concepts aligns with industry standards.

Laptop Required

This class involves hands-on activities using sample software to better facilitate learning. Each student should bring a laptop with a remote desktop protocol (RDP) client preinstalled. Connection specifics and credentials will be supplied during class. Please verify permissions with your IT Admin before class. If you or your Admin have questions about the specific applications involved, contact our [Client Support team \[2\]](#).

Course Outline

Introduction to BDD

Fundamentals of BDD

Origins

- Extreme Programming (XP)
- Daniel Terhorst-North
- Relation to TDD & ATDD

Terminology

Test-First Approach

Benefits

Consequences

BDD vs TDD

Why BDD?

Expansion on Agile Practices

Coverage of User Stories

- Writing Acceptance Criteria

Write Feature Files

- Parameterization in Feature File

Clarity of Scenarios

BDD automation

Code Reuse in Framework

Improving specifications

Integrating with CI/CD

Mindset and Culture

Collaboration

Sustainability

- Sprint Planning
- User Stories
- Acceptance Criteria

Capturing Requirements

- Best practices
- Past Failures
- Solution Aspects of BDD

Appropriate Applications

Building the right thing

Benefits

Best Practices

Behavior Driven Testing (BDT)

BDD Process & Practical Application

Three Amigos Meeting

- Business stakeholder
- Developer
- Tester

Maintainability and testability

Psychological safety

Quality

BDD Tools

Essential Tools: Cucumber & Gherkin

Understanding of Available Tools & Implementations

IDE Support & Expectations

Transitioning to BDD

Small incremental changes

Team and management buy-in

Simple and small