

TEST-DRIVEN DEVELOPMENT WORKSHOP WITH JAVA

3 Days Classroom
3 Days Live Online

Individual: \$2450.00

Group: \$2350.00

GSA: \$2340.00

Credits: 21 PDUs

REGISTER HERE:
www.cprime.com/learning

COURSE OVERVIEW

This 3-day TDD training course instructor is a deep dive into Test Driven Development that incorporates the steps that are necessary for effective implementation. Participants will cover Unit Tests, User Stories, Design, Refactoring, Frameworks, and how to apply them to existing solutions. In addition, this course explores the implications of code dependencies, fluid requirements, and early detection of issues. This is an interactive class with hands-on labs. This course demonstrates the skills developers and teams need for building quality applications sustainably, with quality, for the life of the codebase.

COURSE OUTLINE

Part 1: Agile Overview

1. What is Agile Software Development
2. Components of Agile
3. The Role of TDD in Agile Development

Part 2: Unit Testing

1. Unit Test Fundamentals
2. Frameworks
3. Agile Testing Strategy
4. Test Attributes

Part 3: Test Driven Development

1. TDD Rhythm
2. Sustainable TDD
3. Supporting Practices
4. Eight Wastes of Software Development
5. Test Automation

Part 4: Principles of Agile Development

1. Design Principles Overview
2. Coding Principles
3. Isolation of the SUT
4. Developing independently testable units
5. Test doubles

Part 5: Refactoring

1. Why Refactor?
2. Refactoring Methods
3. Refactoring Cycle

Part 6: Pair Programming

1. Pair Programming
2. Advantages of Pairing
3. Pairing Techniques

Part 7: Acceptance Test Driven Development (ATDD) & Behavior-Driven Development (BDD)

1. Acceptance Testing
2. Best Practices for Effective Testing
3. BDD vs. ATDD

Part 8: Advanced TDD

1. TDD Solutions
2. Advanced Unit Testing
3. Outside In vs Inside Out
4. Test Strategy
5. Unit Test Examples
6. Advanced Refactoring

Part 9: Simulation

1. Experience Agile development with test driven development and pair programming

See website for full outline