



AGILE PROGRAMMING WITH TEST DRIVEN DEVELOPMENT (TDD)

Course Description

This course covers the practices involved in software development on an Agile project.

The fundamental skills of software development are necessary to successfully delivering working software on any project. Agile projects bring a new way of working for developers. Close cooperation, collaboration and lots of communication characterise Agile projects. This course provides programmers with the tools and skills to be successful in this environment.

The course delves into the development techniques embodied in eXtreme Programming and other Agile methods. These good programming practices enable Agile projects to deliver working software early, and continuously.

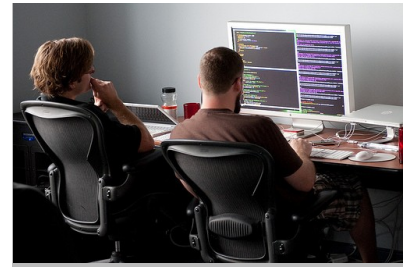
Prerequisites

This is not an introductory programming course. Participants will need to be familiar with either .Net or Java approaches to development. In addition, it is assumed participants will have a basic understanding of Agile terminology and techniques.

Course Outline

The course covers the following areas:

- Team code ownership
- Pair programming
- Test driven development
- eXtreme programming
- Coding standards
- Simple design
- Refactoring
- Developer participation in:
 - ◊ Story prioritisation
 - ◊ Estimation
 - ◊ Elaboration
- Continuous integration
- Automated acceptance testing
- Tools to support Agile development



Learning Objectives

- Participate actively in an Agile team
- Explain and practice pair programming
- Explain and participate in continuous integration
- Explain and practice test driven development approaches
- Explain and apply eXtreme programming approaches
- Explain and apply refactoring to development.

Target Audience

Developers becoming involved in Agile projects and Agile developers wanting to round their knowledge of common development practices on Agile projects