

Agile Development Assessment, Training and Mentoring Services



Agile Development

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The recent emergence of **Agile Methods** represents an exciting opportunity for organisations to establish a proven software process that results focussed while placing minimal overhead on the company.

Unlike traditional “heavyweight” processes, Agile Methods expect and welcome change. They are built around an ethos of developer and customer collaboration.

Agile Methods deliver customer requirements through early and continuous delivery of valuable software, in contrast to the traditional approach of a long development time before implementation.

Agile Methods are also particularly designed for smaller people-oriented companies working in a dynamic environment and relying on the creativity and skill of their developers to drive company growth.

Agile Project Management represents a *paradigm shift* for Project Managers familiar with a traditional environment. CSE can offer a number of services that will help smooth this transition and provide the necessary skills to manage an Agile Project successfully.

Benefits of the Agile Approach to your Organisation

By working with CSE, you will be sure of implementing an approach that not only meets your organisation's requirements but will be flexible to change as your operation evolves into the future. The approach will enable you to develop the effective skills, to ensure that:

- New staff get up to speed much more quickly
- You will have skilled people with state-of-the-art abilities
- Changing customer/user requirements can be dealt with effectively
- You will be able to improve the way you do things to increase efficiency.

CSE Services

CSE offers a range of services to support organisations transitioning to Agile Development.

Agile Risk Assessment

CSE can carry out an Agile Risk Assessment to determine how agile or defined your development process needs to be. The assessment is in two stages: the first stage looks at a number of *Critical Factors* that will affect your organisation's ability to operate successfully in an agile environment; the second stage is more detailed and covers a *Risk Analysis* that addresses risks particularly associated with agile and traditional development.

The output of the Risk Assessment of your organisation is a presentation and a report, outlining the findings of the assessment.

On-Site Mentoring

On-site mentoring is tailored to the needs of an organisation offering a flexible approach to suit your own timetable. On-site mentoring can take a number of forms, for example:

- Assistance in managing an Agile Project
- Pragmatic implementation of Agile Project Management principles
- Establishment of Technical Architecture
- Assisting in requirements Capture
- Assisting in application design, refactoring, and testing.

Training

We offer the following comprehensive courses which address all aspects of the software process, including management, engineering and development.

Agile Processes and Project Management

Agile Process Overview

This two-day course gives an overview of the principal agile processes currently in use. It is intended to give the attendee an understanding of “what’s out there” and provide information to allow an informed decision to be made as to how to move further into the world of agile development.

The course gives an overview of the principles of methods such as eXtreme Programming, SCRUM, OpenUP and the MSF. It also covers the strengths and weaknesses of these approaches, and compares them with other iterative and plan-driven methods.

Agile Project Management

This two-day course is intended to give a solid grounding to those new to agile project management.

The subjects covered include:

- Iterative Development
- Agile Methods
- Iterative Methods and Emerging Requirements
- Large vs Small Agile Projects
- Estimation and Scheduling of Agile Projects
- Risk & Iterative Development
- Tracking Agile Projects
- Agile & Release Planning
- Contracts & Agile Project Management

The course includes a number of exercises, built around a real-life case study.

Agile Engineering

Refactoring

Refactoring can be defined as changing a program in order to improve its internal design without affecting its observable behaviour. Refactoring is a fundamental Agile engineering technique.

This three day course covers

- Refactoring and Testing
- Refactoring mechanics
- Bad Code Smells
- Refactoring and Patterns

Agile Thinking

Being agile does not mean you ditch up front analysis and design, but it does make you treat artefacts such as diagrams and pseudo code as communication tools rather than as prescriptive specifications. In this three day course we look at a range of techniques and specifically consider their areas of applicability.

- Conceptual Modelling – Mind Maps, Influence Charts and the XP Metaphor.
- Functional Modelling – CRC Cards, User Stories, Test Driven Development.

Agile Architecting

This three day course teaches you how you can build an architecture that will support an agile approach. It specifically covers.

- Dependency Injection Frameworks
- Object Relational Mapping
- Architectural Design Patterns

All of the above courses can be run on-site and can be tailored to an organisation's particular needs.

For More Information

If you would like to know more about these or any of our services please contact us at:

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