

Agile Software Development

Methodology, Values, Principles, User Stories, Pairing, Individual/Team Dynamics, Test First, Refactoring

Agile software development is a highly productive strategy for organizing project teams. It allows software to be quickly written for today's needs and that can easily evolve to keep up with an every-changing business environment. It exploits the best of individual and team creative efforts. Agile shuns the heavy "ceremony" of documentation-rich rigid software development processes; and instead advocates a code-centric approach with just enough documentation to genuinely satisfy all stakeholders' needs. This approach is more satisfying for developers and is more finely aligned with customers' true requirements. It results in

much richer contributions from all project participants. It advocates short iterations that fulfill the "release early and release often" aspiration. Teams are based on a flat organizational structure with a high-degree of face-to-face communication with a "product owner". It treats the software development business as an iterative subscription model, rather than a once-off event. It is a simpler approach to writing software – and easier for a team to use. In today's highly competitive environment, whichever software team can write quality code fastest wins. This course is ideally suited to dev teams making the agile move to gain competitive advantage.

Contents of One-Day Training Course	
<p>Target Audience All members of software project teams – managers, architects & programmers - and the product owner.</p> <p>Prerequisites Good understanding of software development issues</p> <p>Significant project experience (either as a specifier or an implementer) .</p>	<p>Efficient Light Methodology Current state of play in s/w projects Need for new approach to programming Families of agile methodologies and selecting best techniques from each “An ecosystem that ships software”</p> <p>Values Individuals and interactions over processes and tools Working software over comprehensive documentation Custom collaboration over contract negotiation Responding to change over following a plan</p> <p>Principles Satisfying customers, welcoming changes, delivering working software, work together, projects by motivated individuals, face-to-face communications, progress measured by running code, sustainable development, quality matters, simplicity, self-organizing teams, reflection Individual & Team Dynamics High communication levels Shared knowledge spaces Benefits of higher-skilled developers Handling a creative team Collaborative & competitive</p> <p>Design Documentation Doc strategy – succinct yet sufficient Documentation for all project stakeholders Useful templates for project documents</p>
	<p>Agile Projects Agile project management Iterations and releases</p> <p>Requirements via User Stories What is a user story and how to create one? Certain number completed each iteration</p> <p>Design Architecture with a little ‘a’ UML as a sketch Design today for today; refactor tomorrow</p> <p>Test-First Written by programmers (unit tests) & customers (acceptance tests) Putting the concept into practice</p> <p>Pair Programming “A driver and a navigator” (think rally car racing) - not “a driver and a passenger” Duties of the navigator Continuous code review</p> <p>Refactoring What happens when software matures? “Improve the design after the software has been written” Business Issues Fixed price/fixed-scope contracts, responsibilities, outsourcing, etc.</p> <p>Tools Continuous Integration/Delivery tooling Unit Test tools Refactoring tools</p> <p>Sample Project Exploration of the use of agile processes in a demo development project</p>



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