

Agile Fundamentals

Length: 2 Days

Summary: Designed specifically for agile project team members, product owners, project leaders and senior managers. This course offers project managers a firm grasp of the agile approach as it relates to new product development. In addition, students will apply the fundamental models of Iteration Review and Iteration Retrospectives, and learn to utilize the concepts of Inspect and Adapt, Self-Assessment, and Continuous Improvement.

If you need to learn what is required to lead—or participate in—an agile project within in your organization, this course covers Initiation to Iteration, and everything in between!

Learning Objectives: At the conclusion of this course, students will be able to:

1. Compare the Agile and Waterfall approaches
2. Determine which method is best suited for their project
3. Apply the basics of Agile Team Organization
4. Use Agile Chartering and high-level estimating principles to initiate a project
5. Create personas and user stories, and perform story-level estimation
6. Develop and manage a product backlog
7. Use low-tech, high touch team communication methods on projects
8. Apply the principles of Servant Leadership
9. Plan and conduct a basic iteration review and iteration retrospective

COURSE CONTENT

The Agile Value Proposition

- What is Agile?
- Comparison of agile and traditional approaches
- Timeboxing and prioritization
- Traditional & incremental delivery
- Early delivery of value
- Inspect and adapt

Agile Delivery Teams

- Team environment
- Team participants & roles
- Self-organizing team principle
- ScrumMaster/Team Facilitator

Building High Performance Teams: Project Initiation

- Feasibility metrics
- Project charter and vision
- Personas
- Requirements decomposition
- Progressive elaboration
- Managing the product backlog
- Creating user stories
- Types of estimation
- High-level estimation
- The product roadmap

Release Planning

- Story mapping
- Decomposing stories
- Story maps for releases
- Story level estimation
- Prioritization factors
- Kano analysis
- Pareto analysis
- MoSCoW prioritization
- Relative Ranking
- Risk burndown graph
- Risk adjusted backlog
- Creating a release plan
- Preparing for the upcoming iteration

Inside the Iteration

- Tasks within an iteration
- Roles within an iteration
- Planning the iteration
- Commitment reality check
- Using Storyboards/Task Boards
- Communication and team space
- Daily stand-up meeting
- Information radiators
- Agile engineering practices
- Burndown/burnup tracking
- Tracking features delivered
- Velocity per iteration
- Escaped defects
- The iteration review
- The iteration retrospective
- Self-assessment

Overview of Agile Methodologies

- Scrum core concepts
- XP core concepts
- Kanban core principles
- Lean core concepts
- Crystal family of methodologies
- FDD 5-step process core concepts
- DSDM core principles

Your Action Plan