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## Agile Project Management with Scrum

Workshop Course 918 • 3 Days

Attendee Rating ★★★★★



### You Will Learn How To:

- Deliver business-valued software to your customer in less time
- Develop higher-quality software products at lower cost
- Mitigate uncertainty and risk by applying Agile values and principles
- Apply the Scrum framework to meet business needs
- Focus on continuous process improvement through embedded learning in the workplace



### Active Learning Workshop:

- Identifying candidates for the Product Owner role
- Envisioning a product
- Estimating feature size using Planning Poker
- Simulating a six-Sprint project from start to finish
- Interpreting quantitative data to accurately track progress
- Dealing with geographically distributed development

About This Course: In this course, you learn how to apply Agile project management principles and the Scrum framework to create software-intensive products. Through immersive workshop activities you acquire the practical knowledge and skills to plan, manage and execute Agile software development projects.



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Agile Project Management with Scrum

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Course 918 Content

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## Introduction to Agile Project Management

- Articulating Agile values and principles
- Comparing Agile with traditional, masterplan methods
- Appreciating Agile development as value-driven delivery

## Fundamentals of the Scrum Framework

### Dealing with uncertainty and risk

- Recognizing Scrum as a framework for self-managing teams
- Locating Scrum in empirical process control theory
- Revealing systematically the issues in product development

### Identifying the roles and their responsibilities

- Ordering requirements and insuring Return on Investment through the Product Owner
- Establishing the ScrumMaster as a fundamentally new management role
- Shaping the self-managed Development Team

### Managing product delivery

- Creating a Product Backlog as a list of requirements and technical issues
- Iterating development through cycles of one month or less
- Time boxing to establish a regular rhythm of energized work

### Tools for tracking and monitoring a project

- Capturing user needs as stories
- Using capacity-based planning to plan progress
- Measuring estimated effort with story points

## Product Planning with Agile

### Focusing on business value

- Delivering business-valued functionality with Sprint Planning
- Collaborating with customers to manage risk and uncertainty
- Demonstrating implemented features as "potentially shippable increments"

### Identifying features for development in an iteration

- Envisioning value through Product Chartering
- Concretizing a Sprint Goal through feature selection
- Identifying development tasks in the Sprint Backlog

## Fostering Self-Management within the Development Team

### Creating the optimal working environment

- Staffing the Development Team
- Protecting the team from outside interference
- Making progress visible and open

### Transitioning to self-management

- Facilitating cross-functionality and team learning
- Empowering the team to control their own development process
- Adapting management roles external to the development effort

### Running iterations

- Inspecting and adapting through the Daily Scrum
- Producing a quality-assured, business-valued product
- Ensuring standards through an agreed Definition of Done

## Managing Change

### Generating rapid feedback through Sprint Reviews

- Demonstrating completed functionality to the customer
- Fostering collaboration with stakeholders through discussion of "done" increments
- Recalibrating estimates based on experience

### Reviewing iterations through Sprint Retrospectives

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"We had a phenomenal instructor, and after taking the Scrum course, I was able to share the

- Revising team behavior on the basis of lessons learned
- Continuously improving by embedding new knowledge

### Applying Agile throughout Your Organization

#### Scaling for large projects

- Working with large Product Backlogs
- Scaling the Product Owner role
- Coordinating component teams with Scrum Development Teams

#### Managing distributed development

- Planning Releases and Sprints for distributed teams
- Ensuring effective communication across time zones
- Holding distributed Sprint Reviews

#### Establishing momentum for successful adoption of Agile methods

- Assessing the organization's readiness for Agile adoption
- Creating an Improvement Backlog for ongoing improvement

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principles of the agile methodology with my team."

– V. Ford  
Project Manager  
George Washington University

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