Professional Scrum Developer-pPSD



Intended for anyone involved in software development, this course provides a unique and intensive experience as it guides teams on how to turn product requirements into business value in the form of potentially-releasable increments of done, working software. This is accomplished using the Scrum framework, Visual Studio, and modern Agile development practices.

Through a combination of certified instructor-led training, hands-on activities, and team exercises participants are exposed to the key components of Scrum and the skills required to help successfully develop software using Visual Studio. At course completion, attendees will have had exposure to most of the topic areas outlined in the Professional Scrum Developer Subject Areas [1].

This course is a mix of lecture, demonstration, group discussion, and hands-on software development. The true value of the course is realized as each student collaborates with other team members, on a case study product, using Azure DevOps Services, over several mini-Sprints.

Who Should Attend

This course is suitable for any member of a Scrum Development Team, such as those who develop tests, architecture, design, schema, or code. Entire teams are encouraged to attend this course and experience the positive effects of collaborating inside of a timebox according to their definition of done. Each team must be cross-functional, ensuring it has the necessary skills. Product Owners, Scrum Masters, stakeholders, and those evaluating Scrum's effectiveness are welcome to attend, but keep in mind that every attendee will be expected to participate and collaborate equally, working towards the achievement of their team's goals.

Prerequisites

This course assumes that each student has read the Scrum Guide [2], has a basic understanding of Scrum, and is using Visual Studio 2019 Enterprise edition. Failure to meet any of these prerequisites may result in a diminished learning experience.

Professional Scrum Developer Certification

All participants completing the Professional Scrum Developer course will receive a password to attempt the Professional Scrum Developer (PSD) assessment. PSD class participants who attempt the PSD I assessment within 14 days of receiving their free password and do not score at least 85% will be granted a second attempt at no additional cost.

Course Outline

Fundamentals of the Scrum framework Scrum roles, artifacts, and events Complementary development practices

Application Lifecycle Management

Visual Studio ALM/DevOps Tools Azure DevOps Scrum process Planning/managing work using Azure Boards

Emergent Architecture

Fitness (fit) for purpose Avoiding upfront requirements and design Developing in slices, not layers Minimizing documentation

Quality Code Quality code == quality software TFVC or Git version control Branching and merging for Scrum Teams Supporting the various release models

Refining the Product Backlog

Defining and assuring quality Definition of done Reporting bugs In-Sprint vs. out-of-sprint bugs INVEST and 3C techniques Agile estimation Wall estimation and Planning Poker techniques

Agile Testing

Testing in parallel with coding Development, acceptance, and exploratory testing Unit testing in Visual Studio Test-Driven Development Analyzing code coverage Acceptance testing in Visual Studio Planning/managing testing using Azure Test Plans Acceptance Test-Driven Development SOLID principles Clean code == quality code Code and test smells Code quality support in Visual Studio Code Analysis, Code Metrics, Code Clone Analysis Continuous Integration (CI) Automating builds with Azure Pipelines CI support in Azure Pipelines Continuous feedback and related tools Refactoring and refactoring tools Technical debt and how to pay it back

Scrum Challenges

Getting done and avoiding undone work Running experiments (spikes) Cross-functional team collaboration Not changing Scrum Overcoming common dysfunctions & case studies Working with challenging team members Improving productivity Becoming a high-performance Scrum Team

Price: \$1995