# Applying Professional Scrum for Software Development Training

Duration: **3 Day**

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## Overview

**Applying Professional Scrum for Software Development™ (APS-SD)** is a three-day, hands-on course focused on building high-quality software within the Scrum framework. Participants use modern Agile engineering practices and supportive DevOps tools while working on a realistic software product and producing real code.

Depending on class size, learners work as one Scrum Team or across multiple Scrum Teams. Throughout the course, they work from a realistic Product Backlog, collaborate across a series of Sprints and aim to produce potentially releasable software Increments.

The programme is designed to go beyond theory. Participants experience many of the challenges faced by real software teams, including changing requirements, technical constraints, quality expectations, collaboration issues and the need for continuous improvement.

## Prerequisites

The course is intended for all members of a Scrum Team, including:

- Software architects
- Analysts
- Programmers and software developers
- Database developers
- Testers
- IT Operations professionals
- Scrum Masters
- Product Owners
- Other technical roles involved in software delivery

The course focuses on using technology to deliver working software in Increments. Attending with an existing Scrum Team can be especially valuable because the team can improve its way of working together.

Participants are also encouraged to review the **PSD Subject Areas** before attending.

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## What You Will Learn

By the end of the course, participants will be able to:

- Explain how modern Agile engineering practices and DevOps tools strengthen a team's ability to deliver working software
- Understand the different aspects of a Scrum Team and how team members collaborate to complete work
- Use modern software development tools and practices more effectively within Scrum
- Turn Product Backlog items into working software during a Sprint
- Connect technical quality with effective Scrum delivery
- Respond to changing requirements and conditions using the Scrum framework
- Apply continuous improvement across multiple Sprint cycles

## Outline

### Real Software Development with Scrum

Across the three days, participants work in a way that closely reflects a real Scrum Team environment. The course progresses through multiple Sprints so that concepts are experienced in practice rather than only discussed.

- Working as a Scrum Team
- Selecting work from a Product Backlog
- Developing against Sprint objectives
- Producing working software Increments
- Handling change during the Sprint
- Improving continuously as a team

### Agile Engineering Practices

Participants examine the role of modern engineering practices in supporting high-quality Scrum delivery.

- Maintaining technical quality
- Focusing on working software
- Incremental development
- Improving through feedback
- Applying engineering practices within Sprint work

### DevOps Tools and Practices

The course explores how DevOps tools can strengthen the team's ability to build and deliver software.

- Tools that support development and delivery
- Continuous integration approaches
- Improving technical workflow
- The role of automation in software delivery
- Supporting both quality and delivery speed

### Working as a Scrum Team

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Participants explore how different areas of expertise work together to create value.

- Team collaboration
- Shared responsibility
- Cross-functional working
- Combining technical and product decisions
- Working collectively towards the Sprint Goal

## From Product Backlog to Increment

Learners work from a realistic Product Backlog and develop functionality that could potentially be released.

- Understanding Product Backlog items
- Planning work within a Sprint
- Managing development activities
- Maintaining quality expectations
- Producing potentially releasable Increments

## Responding to Real-World Challenges

The course introduces realistic situations similar to those experienced by professional software teams.

- Changing needs
- Technical obstacles
- Quality problems
- Team coordination
- Re-planning during a Sprint
- Continuous improvement

## Technology Options

The course can be delivered using several technology options:

- .NET
- Java
- A generic technology-independent version

For private courses, a Professional Scrum Trainer can work with the organisation to define a technology stack that better matches its needs.

The .NET version was developed in partnership with Microsoft® and serves as the official training solution for Microsoft Visual Studio.

## No Renewal Fees

Professional Scrum certifications do not expire and do not require renewal fees.

Once a participant passes the assessment:

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- The certification remains valid for life
- The individual is listed on the Scrum.org website
- No future renewal payment is required to retain the certification