

# Scrum in Depth

## Course Description

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The *Scrum in Depth* (SID) course is the first significant update of the Certified ScrumMaster (CSM) course that Ken Schwaber introduced and shared in 2002. As in the original course, the framework, mechanics, and roles of Scrum are covered. The course then goes further by teaching students how to use Scrum to optimize value, productivity, and the total cost of ownership of systems and products. Students will learn through instruction and team-based exercises, and will be challenged to think on their feet to better understand what to do when they return to their workplaces.

### Purpose

The purpose of the Scrum in Depth course is to give students a solid grounding in Scrum and its core principles, from which they can make opportunistic decisions about how to use it best. Students learn why certain decisions are better than others, and why some support Agility while others ultimately lead back to waterfall. They will also learn how to use Scrum productivity metrics to monitor the results of their decisions and how to optimize those results.

Getting the most out of Scrum requires a solid knowledge of how it works and why. The Scrum in Depth course will cover these as well as several advanced topics, like managing risk and optimizing total cost of ownership, that build on Scrum's underlying principles,.

### Audience

Scrum in Depth is primarily targeted at those responsible for the successful use and/or rollout of Scrum in a project or enterprise.

### Prerequisites

- 1) Have read one of the Scrum books.
- 2) Have studied the Scrum Guide at [www.scrum.org](http://www.scrum.org).
- 3) Understand the basics of project management.
- 4) Understand requirements and requirements decomposition.
- 5) Have been on or closely involved with a project that builds or enhances a product.
- 6) Want to know more about how Scrum works, how to use it, and how to implement it in an organization.

### Structure

**Scrum Basics** - What is Scrum and how has it evolved?

**Scrum Theory** - Why does Scrum work and what are its core principles? How are the Scrum principles different from those of more traditional software development approaches, and what is the impact?

**Scrum Framework and Meetings** - How Scrum theory is implemented using time-boxes, roles, rules, and artifacts. How can these be used most effectively and how can they fall apart?

**Scrum and Change** - Scrum is different: what does this mean to my project and my organization? How do I best adopt Scrum given the change that is expected?

**Scrum and Total Cost of Ownership** - A system isn't just developed, it is also sustained, maintained and enhanced. How is the Total Cost of Ownership (TCO) of our systems or products measured and optimized?

**Scrum Teams** – Scrum Teams are self-organizing and cross-functional; this is different from traditional development groups. How do we start with Scrum teams and how do we ensure their success?

**Scrum Planning** - Plan a project and estimate its cost and completion date.

**Predictability, Risk Management, and Reporting** - Scrum is empirical. How can predictions be made, risk be controlled, and progress be tracked using Scrum.

**Scaling Scrum** - Scrum works great with one team. It also works better than anything else for projects or product releases that involve hundreds or thousands of globally dispersed team members. How is scaling best accomplished using Scrum?

## Assessment

Following the course, students will have the ability to take an assessment of their skills and start building a radar chart of their capabilities. This is entirely optional, but is strongly encouraged as a way to continue learning about Scrum beyond the duration of the course. Upon taking this course and passing the assessment, students will receive a certificate of completion.

For more information, contact [ken.schwaber@scrum.org](mailto:ken.schwaber@scrum.org) or [alex.armstrong@scrum.org](mailto:alex.armstrong@scrum.org). To find out where Scrum in Depth courses are being offered and to register, go to <http://courses.scrum.org>.