

CSD Course Contents:

A **Certified Scrum Developer (CSD)** is someone who has demonstrated through a combination of formal training and a technical skills assessment that he or she has a working understanding of Scrum principles and has learned specialized Agile engineering skills.

The Certified Scrum Developer® (CSD) coursework is 5 days course (a combination of a **3 day CSD technical skills** course and **two days of the study of Scrum through either a two-day Certified ScrumMaster® course** OR attending a one-day technical Scrum elective course and a one-day introduction to Scrum course).

CSD Course – Technical Track (3 days)

Architecture and Design

- Principles of architecture in an Agile environment
- Design practices on an Agile team
- Principles that enable testability and ease refactoring
- Emergent Architecture

Collaboration

- Working together as one team
- Including the customer in the process
- Pair programming

Test Driven Development

- Test driven development (TDD) as a design approach
- Red-green-refactor cycle
- Unit testing principles and practices
- What makes good tests/measuring test effectiveness
- Test Doubles

Continuous Integration

- Single command build
- Creating builds that are automated, self-testing, and fast
- The importance of a single source repository

- Increasing visibility & automating deployment

Refactoring

- When to refactor
- Refactoring for maintainability
- Refactoring to patterns
- Refactoring legacy code

Automated Testing

- Automated unit/integration testing
 - Refactoring for maintainability
 - Automated acceptance testing
 - Acceptance Test Driven Development (ATDD)
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Who should attend?

This training is for all team members of the scrum team. This workshop will benefit

- Architects
- designers and developers;
- User Experience Engineers
- Development and Product managers
- Software engineers/Programmers;
- Testers and QA engineers; and
- Business and Technical analysts,
- Technical Writers
- Systems/IT Engineers
- Basically everyone who is part of the Scrum Team.

Preferred: Participants familiarity with Java, .net and Object-Oriented (OO) concepts and terminology.