



Certified Scrum Developer (CSD)

Course ID#: 2200-820-01-Z

Hours: 21

CEU's: 2.1

Course Content

Course Description:

In today's competitive job market, the Certified Scrum Developer credential can set you apart from the pack. A successful Scrum Developer is committed to continuous improvement. The coursework and dedication needed to achieve a CSD sharpens your skills and helps you become a better practitioner of Scrum.

During the course, attendees will learn how to do Scrum effectively in the following topic areas:

- Collaboration & Teamwork
- Architecture & Design
- Test Driven Development. Pair Programming
- Refactoring, Automated Testing

Prerequisites:

- Professional Scrum Master Course, preferably sanctioned by Scrum Alliance
- Professional Scrum Product Owner Course, preferably sanctioned by Scrum Alliance

Topics:

Module 1:

Scrum/Agile Overview

- The Agile Manifesto
- Scrum and the Developer
 - In the Sprint
 - In Daily Scrums
 - In Sprint review
 - In Sprint Retrospective
 - In Backlog Refinement

Module 2:

Collaboration & Teamwork

- Work in Process – Short Cycles and small batches
- What the Agile Manifesto means to a Scrum team

Module 3:

Individuals and Interactions over Processes and Tools

- Team Stability
- Yesterday's Weather –effective planning and commitment
- Swarming
- Pair Programming
- The Happiness Metric

Module 4: Working Software over Comprehensive Documentation

- Good Builds Daily
- Test Driven Development
- Refactoring
- Testing Concepts



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Module 5: Customer Collaboration over Contract Negotiation

- Working with customers
- The Interrupt Pattern

Module 6: Responding to Change over Following a Plan

- Understanding the purpose of User Stories
- Working with the Product Owner

Module 7: Interactions

- Mistakes
- Pitfalls
- Other Bad Smells

Module 8: Architecture & Design

- Principles of architectural design in an Agile environment
- Design practices on an Agile team
- Enabling testability and refactoring

Module 9: Continuous Integration and Testing

- Automated builds
- Automated unit tests
- Automated acceptance tests (Gherkin-type approaches)