



## Scrum Developer with PSD Certification

*Self-organizing and cross functional team are some of the key elements for a Scrum development team to work effectively hence delivering a working software at the end of each sprint.*

### Course Overview

This 3-day course will prepare you to be a Professional Scrum Developer. It provides the concrete know-how about the software engineering tools and practices that are used within the Scrum framework. It presents in detail the Scrum framework, software development practices using Scrum, team dynamics and application lifecycle management.

### Course Objectives

The course is based on an interactive approach in which trainees will learn how to be an effective software developer following the Scrum framework. Exercises, case studies, and examples are used to assist the participants to develop the knowledge, skills, capabilities and insights needed to make the shift from the traditional software development practices to Agile approach.

At the end this course, trainees have a clear understanding about:

- Why adopting Agile and Scrum in software development?

- What is the development team's point of views in the rules of scrum?
- How to implement Scrum practices for planning, project execution and progress reporting?
- How is product backlog created and maintained?
- What is the development team's participation in the different scrum ceremonies?
- What is Application Lifecycle Management (ALM)?
- How to achieve code quality?
- What are Agile testing and emergent architecture?
- What are the habits and behaviors to be a high-performance Scrum development team?

### Targeted Audience

This course is intended for software architects, designers, analysts, developers, testers, team leads, scrum master, product owners, and anyone who is expected to be part of the development team using agile.

### Prior Knowledge

Participants should have a good knowledge of software development and project life cycle.

## Course Content

### Agile Overview

- Agile Principles: The Agile Manifesto
- Benefits of Agile
- Understand Agile for software development
- Different Agile Methods
- Adopting Agile Methods

### Scrum Framework

- Scrum Principles
- Roles and Responsibilities in Scrum
- Scrum Ceremonies
- Scrum Artifacts
- Tracking progress – scrum board and charts

### Managing Product Backlog

- Product Owner and product backlog
- Epics and User Stories
- Estimating a Product Backlog Item (PBI)
- Product Backlog Grooming
- Acceptance criteria (SMART, acceptance tests, BDD/ATDD)

### Implementing Scrum

- Scrum challenges
- Good practices and frequent mistakes

### Software Development Practices

- Code Quality
  - Coding practices
  - Technical debt (SQALE)
  - Refactoring
  - Clean Code
- Agile Testing
  - Agile Testing Quadrant
  - Test-Driven Development
  - Test Defect Management
- Software Architecture
  - Design Patterns
  - Emergent Architecture
  - Brown vs. greenfield

### Application Lifecycle Management

- Sprint/Iteration Tracking
- Software Configuration
- Test and deployment
- Automated Builds, Continuous Integration, Continuous Delivery
- DevOps

## Trainers

Training will be conducted by an experienced trainer and Agile coach from **why innovation!**.

## Course Information

Each session will be limited to a maximum of 12 participants.

**Duration:** 3 days

**Location:** Singapore, Hong Kong

**Training Fee:** HKD 14,000, or SGD 2,310

**Certification Fee:** USD 200

## Related Courses

- Agile Essentials
- Scrum Master with PSM I Certification
- Scrum Product Owner with PSPO I Certification
- Kanban & Lean Foundations
- Leading SAFe® 4.0 with SA Certification
- SAFe® 4.0 Advanced Scrum Master with SASM Certification



We offer a large variety of trainings in Innovation Management, Agile and Software Engineering. Courses are delivered through open enrollment or company in-house sessions. In this later case, we may customize training to your company's specific context and needs.

We are proud of our passion for knowledge and we promise our students a fun learning experience mixing a variety of teaching techniques.

### For more details, contact:

**why innovation!**

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