

# Scrum Developer: Certification become an Agile developer

Hands-on course of 2 days - 14h  
Ref.: PSD - Price 2024: CHF1 920 (excl. taxes)

## EDUCATIONAL OBJECTIVES

At the end of the training, the trainee will be able to:

Understand the role of the development team and its self-organization

Become proficient in Agile development best practices

Learn Agile testing techniques

Plan out your actions as a development team member in an Agile project

Get certified as a Scrum team developer

## TEACHING METHODS

Participatory lecture with feedback and verification that understanding is being attained over time through exercises.

## CERTIFICATION

Preparation for the exam by taking a mock exam with commented answers. English-language certification exam taken online at a later point: One hour, 80 multiple-choice questions (85% is required to pass the exam).

## THE PROGRAMME

last updated: 06/2022

### 1) Agility

- Why Agility? New needs, motivations, culture, principles, what are the benefits?
- The Agile Manifesto and the 12 principles.
- Its fields of application.

### 2) The Scrum Guide

- Scrum theory: empirical process, pillars, Scrum values.
- Roles: the Scrum team, the Product Owner, the Scrum Master, the development team.
- Artifacts: Increment, Product Backlog, Sprint Backlog, Definition of Done.
- Global view of the events and presentation of the Sprint concept.
- Events: Sprint planning, Daily Scrum, Sprint Review, Sprint Retrospective.
- How the different roles and Scrum Master interact with the organization.
- Best practices: estimation and velocity, techniques, User Story, tracking and information radiators.

### 3) Agile development techniques

- Starting point: The Product Backlog.
- Pair programming, refactoring.
- The importance of development standards within a team (technical debt and basic rules).
- Handling bugs (bug report, life cycle).
- Measurements.
- Architecture, design patterns, and cross-cutting concerns.

### 4) Agile testing techniques

- The classification of tests: Structural, functional, unit, integration, validation, acceptance.
- Testing before coding, TDD: Principles and benefits.
- Behavior-Driven Development, or BDD.
- Acceptance testing, ATDD.

## TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

## ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

## 5) Continuous integration and automation

- Concepts and benefits.
- Implementation and recommendations.
- Configuration management: Concepts, processes, branch diagram.
- Configuration management: Centralized, decentralized.
- Configuration management: Check-out and commit.
- Configuration management: Baseline and changes.
- Configuration management: Merge.

## 6) Infrastructure and tools

- Overview.
- Tools - Development environment.
- ALM - Application Lifecycle Management.
- Tools - Unit tests.
- Tools - DB.
- Tools - Continuous Integration.

## 7) Exam

- Tips for the exam.
- Mock exam with commented correction.

*Exam* : Taking the Scrum.org Professional Scrum Developer® (PSD®) exam.

# DATES

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## REMOTE CLASS

2024 : 04 Jul, 03 Oct