

- Discover how testing is implemented in different agile environments
- Learn about user stories and how to test them
- Explore key agile testing practices—ATDD, BDD, TDD, and ET
- Examine technical and team skills you need for success
- Recognize the main agile testing challenges and how to address them

Agile software practices are being employed within many development organizations worldwide. More and more test teams and testers are participating in agile projects or are embedded within agile teams. Many testers struggle to understand the agile development process and their place in it. Learn the fundamentals of agile development, the role of the tester in the agile team, and the agile testing processes. From user story elicitation and grooming through development and testing, this course prepares you to be a valuable member of an agile development team. Explore the business and technology-facing tests agile projects demand and how agile testers help the project succeed. Learn about the techniques of Test-Driven Development (TDD), Acceptance Test-Driven Development (ATDD), and Behavior-Driven Development (BDD). Learn technical and team skills testers need for success in the world of agile development.

## Practice of Agile Testing Techniques

Explore agile testing processes in an informal and interactive workshop setting. Examples are studied through a series of small group exercises and discussions.

## Who Should Attend?

This course is appropriate for both novice and experienced software testers. Developers expected to test within agile teams will find this course extremely useful. Test and development managers also will benefit from this course. A background of basic development and testing processes is helpful.

## ISTQB® Certification & Exam

The International Software Testing Qualifications Board (ISTQB) is the world's most widely-recognized certification of software testing skills and knowledge. Founded in 2002, the ISTQB is a not-for-profit association that has issued more than 750,000 certifications in 129 countries around the globe. The ISTQB Software Tester Certification—Foundation Level (CTFL) is a prerequisite for the ISTQB Foundation Level Extension—Agile Tester (CTFL-AT) exam.

For public virtual classes, you have the option to add on the ISTQB Foundation Level Extension—Agile Tester (CTFL-AT) exam voucher when you register for the class. The exam is an additional fee and is not included in the course price. If you choose to add on the exam voucher, it will be emailed to you upon completion of the course. If you do not choose to add-on the voucher when purchasing this class, you must reach out to an exam provider directly if you wish to take an exam later.

The ISTQB Foundation Level Extension—Agile Tester (CTFL-AT) exam is not currently available for in-person public training. You must reach out to an exam provider directly if you wish to take an exam later.

Please reach out to client support with any questions [clientsupport@coveros.com](mailto:clientsupport@coveros.com) [1].

## ICAgile Certification

Successful attendees are awarded the ICAgile Certified Professional in Agile Testing (ICP-TST). Additionally, the certified attendees will be listed on the ICAgile website, indicating their designation. Coveros recommends [Agile Fundamentals - ICAgile Certified Professional \(ICP\)](#) [2] for those seeking ICAgile's Agile Testing certifications. *The ICAgile certification fee is included with your registration for your convenience.*

Students not looking for certification and only taking the Agile Testing course should already have a good knowledge

of agile principles and how agile teams function.

## Course Outline

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### Introduction

Validation  
Verification  
Exploration  
Testing as a skill set  
Testing to support customers  
Testing to support developers  
Testing to support stakeholders  
Test matrix  
Agility, grace, and flexibility

### Agile Testing Origins

Agile testing history  
Agile testing philosophy  
Traditional vs. agile testing  
Evolving lifecycle models  
Waterfall  
Spiral  
Structured  
Scrum  
Extreme Programming  
Kanban  
Testing and the agile manifesto  
Testing and agile principles  
What is quality  
What is done  
Testing as a team approach  
Teams and process  
Requirements  
Unit testing  
Integration testing  
System testing  
Acceptance testing

### Agile Planning and the User Story

Testing during iteration planning  
Testing's role in planning  
Release Planning  
Product backlog  
Story tests

### Agile Planning and the User Story (continued)

Constraints  
Sizing stories  
Backlog grooming  
Sprint backlog  
Basis for testing  
Testing activities in the sprint

### Testing in the Heat of the Sprint

Continuous integration  
Test-driven development  
Automating unit tests  
Acceptance test-driven development  
Behavior driven development  
Scripting  
Exploratory testing  
Non-functional testing  
Post-development testing  
Release testing  
User acceptance testing  
Live testing

### At Sprint's End

Customer demo  
Retrospective  
Avoiding technical debt

### Organizing Agile Testing

Measuring progress  
Test documentation  
Test environments  
Bug management  
Agile test automation  
Distributed agile teams

### Wrap Up

**Price:** \$1545