

- 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. Please reach out to client support with any questions clientsupport@coveros.com.

For public virtual classes added on to a Techwell virtual conference pass purchase, the class fee includes the cost of an exam voucher which will be sent to you upon completion of the class. If you do not wish to take the exam, please reach out to customer service before or after completing this purchase. Voucher refunds will be allowed before the class start date.

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 [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

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: \$1395