

ICAgile Certified Professional in Agile Testing (ICP-TST) & Test Automation (ICP-ATA)



DESCRIPTION

The ICP-TST and ICP-ATA are parts of Continuing Learning Certifications (CLCs) on the Agile Testing Track. This certification focuses primarily on agile testing techniques and processes in addition to the mindset and role of an agile tester. Students will learn how to set up an overall test automation strategy, including determining which types of tests are better suited for automated versus manual execution. Learning outcomes include the ability to distinguish and “agilize” the different types testing on an agile project, and to understand how business, development, and testing personnel best collaborate on an agile development cadence. In addition, students will learn agile test strategies and techniques related to release planning, testing within iterations, regression testing, performance testing, pre-deployment, and production support testing.

Typically, training providers will cover the required learning objectives in approximately 18 hours of instructional activities over the course of two and a half to three days

TARGET AUDIENCE

This certification will be most relevant for Agile testers or aspiring agile testers with a passion for collaboration and software quality along with a desire to learn and practice agile testing techniques. Relevant roles include Testers, Test Managers, Analysts, and Developers with an interest in testing.

ASSESSMENT

AgileTrailblazers will conduct assessment in compliance with ICAgile certification requirements.

TRAINING LOCATIONS

We can conduct training sessions for our customers at their premises or host them at our offices in McLean, VA or Media, PA.



QUICK FACTS

Learning Track: Agile Testing

Certification Level: Professional

Course Name: ICAgile Certified Professional in Agile Testing & Test Automation

ABOUT AGILETRAILBLAZERS

AgileTrailblazers® is a management consultancy firm specializing in guiding medium-to-large scale organizations in their transformation to Continuous Business Value Delivery® through use of lean thinking and agile frameworks.

OUR SERVICES

- Agile Transformation
- Solutions Delivery
- DevOps
- Product & Portfolio
- Training

LEARNING OBJECTIVES

Agile Testing (ICP-TST)

1.	Overview of Agile Testing
	Origins of Agile Testing
	Agile Testing vs. Traditional Approaches
2.	Mindset & Culture
	Agile Testing Principles
	Whole Team Approach
	Building Quality In
	Continuous Improvement and Feedback
	Ingraining The Agile Testing Mindset (Hands-on Exercise)
3.	Categories of Testing
	Agile Testing Quadrants or Categories
	Automation Pyramid - Introduction
	Testing Techniques
4.	Collaborating with Developers
	Unit and Component Testing
	Pairing between the Developer and Tester
5.	Example Driven Development
	Acceptance Test-driven Development (ATDD)
	Behavior-Driven Development (BDD)
	Spec by Example
6.	Feature and Story Testing
	User Story Testing
	Feature Testing
	Exploratory Testing
	Non-functional testing

7.	Roles and Responsibilities
	Team-Based Testing Approach
	Typical Business Representative Role in Testing
	Typical Programmer Role in Testing
	Typical Tester Role in Testing
	Role of Test Managers in Agile
8.	Test Strategy and Planning
	Different strategies based on levels of precision
	During Iteration Planning/Kickoff
	Lightweight Test Plan Documentation
	Defect Tracking and Management
	Results Reporting
	Test Metrics
	Regression Tests
9.	Successful Delivery
	Time-boxed Delivery
	Continuous Delivery
	Post-development test cycles
	Iteration Wrap-Up
	Definition of a Release/End Game
	User Acceptance Testing (UAT)
	System-wide and Cross-team Testing
	Post-Release Testing
	Documentation for Regulatory Requirements
10.	Test Environments and Infrastructure
	Typical Environments for Test
	Build Pipeline
	Automated Builds
	Testing the Proper Build
	Test Data Management
11.	Working on Distributed Teams
	Distributed Team Communication
	Distributed Team Coordination

Test Automation (ICP-ATA)

1.	Test Automation Strategy
	Automation Pyramid
	Planning for Automation
	Automation Frameworks
	Selecting Tests for Automation
	Supporting Process
2.	Testing and Continuous Integration
	Automated Test Cycles (Continuous Testing)
	Code Analysis/Metrics
3.	Automating Story and Feature Testing
	Mapping Tests to Automation
	ATDD and BDD Testing Frameworks
	UI Testing Frameworks
4.	Automation Support for Integration and System Testing
	Data Setup and Tear down
	Data within Automation
	Tools to Support Exploratory Testing
	Tools for Performing Non-Functional Testing
	Virtualization