Agile Automation Testing Training (ICP-ATA Certification)

Category: Project Management & Business Skills | **Vendor:** Various

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Certified Professional in Agile Test Automation (ICP-ATA), Certified Professional in Agile Test Automation, students will need to pass the Learning Tree, Certified Scrum Developer

Course Overview

The fast-pace and iterative delivery of Agile projects requires advanced test automation to ensure that quality software product is delivered with high test coverage. This test automation class addresses practical techniques tester-developers must employ to ensure they write high-coverage test code and qualifies for ICAgile’s Certified Professional in Agile Test Automation (ICP-ATA).

About This Course

The fast-pace and iterative delivery of Agile projects requires advanced test automation to ensure that quality software product is delivered with high test coverage. This test automation class addresses practical techniques tester-developers must employ to ensure they write high-coverage test code and qualifies for ICAgile’s Certified Professional in Agile Test Automation (ICP-ATA).

Who Should Attend

While the course qualifies for an ICAgile certificate, the class is not written like an exam prep course. The material is designed for hands-on, Agile training in test automation.

Prerequisites & Entry Requirements

General Prerequisites:

Prior to attending this course, attendees should have attended:

- Course Agile Fundamentals: Scrum, Kanban, Lean and XP (AGFUND) , Agile Fundamentals: Scrum, Kanban, Lean and XP, or Course Scrum Alliance Certified Scrum Master (ACSM) , Certified ScrumMaster®

- Work experience in programming, software development, and testing

Recommended Experience:

- Work experience as an Agile Tester, Agile Programmer, DevOps Engineer, Test Manager, and other roles that ensure sustainable quality and efficient use of tools and time.

- Taking Course Agile Testing Strategies and Practices (TSP) , Agile Testing Strategies and Practices, is recommended, either before or after this course, to complete the ICAgile certification pathway for Agile Testing.

- Students will be emailed a short document to review before class. Understanding the content of this pre-course reading is required before class.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Achieve optimal quality in Agile projects through test automation

- Code user story and feature tests with ATDD (Acceptance Test-Driven Development) and BDD (Behaviour-Driven Development) to validate product value

- Tool your project to cover functional and non-functional testing

- Leverage test design patterns to achieve high coverage

- Design test code and data for long-term success

- ICAgile: To obtain ICAgile Certified Professional in Agile Test Automation, students will need to pass the Learning Tree exam. Once notification of passing the exam has been received, contact Learning Tree's customer service to request registration with ICAgile.

- Scrum Alliance: This course qualifies for 2 days of technical training towards the Certified Scrum Developer certification. To obtain Scrum Education Units (SEUs), students will need to pass the Learning Tree exam. Once notification of passing the exam has been received, contact Learning Tree's customer service to request registration with Scrum Alliance.

Detailed Course Outline

Test Automation Manifesto

Motivations

- Mapping Test Automation needs to Agile

- Justifying the focus on high automation achievements

Dimensions of automation

- Addressing Test Pyramids from all angles for high quality

- Mapping automation effort to the Agile Test Quadrants

- Leveraging the 4D of TDD strategies

Leading practices

- Establishing rules of engagement through a manifesto

- Selecting high ROI tests through an automation index

Business Test Automation

Business test strategies

- Mapping test effort to APIs or UI

- Categorising business tests in the 4 classes

- Using design patterns for long term success

- Implementing test cases with leading execution patterns

ATDD/BDD

- Formalising test cases through ATDD cards

- Specifying test with relevant examples

- Dealing with business rules through BDD

UI automation

- Selecting the right CUIT patterns

- Layering UI Tests for better resilience

Technical Test Automation

Design analysis

- Zooming on components through design reviews

- Leveraging OO rules for effective unit test strategies

- Measuring test coverage as a success indicator

TDD

- Protecting from code changes through TDD patterns

- Using advanced mock techniques for better coverage

- Recognising leading design patterns for easier test maintenance

- Avoiding anti-patterns to limit technical debt

Non-Functional Test Automation

NFR driven planning

- Using NFR dimensions for better planning

- Breaking down sub dimensions for sharp quality assessments

NF test tools

- Perfecting tool selection for low cost test design

- Developing multi-dimension NF Tests with pertinent tools

Continuous Testing and Delivery

Foundation of CI

- Integrating testing with the pipeline process

- Accelerating code promotion through rapid test feedback

Deployment pipelines

- Configuring tests to map the anatomy of a deployment pipeline

- Invoking code analysis automation at the commit stage

- Automating testing of the deployment stage

Test environments

- Leveraging virtualisation for easier test management

- Creating codeline –aware environments

Skills You Will Learn:

- Achieve optimal quality in Agile projects through test automation

- Code user story and feature tests with ATDD (Acceptance Test-Driven Development) and BDD (Behaviour-Driven Development) to validate product value

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Frequently Asked Questions

Q: What delivery options are available for Agile Automation Testing Training (ICP-ATA Certification)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Agile Automation Testing Training (ICP-ATA Certification) course helps prepare you for the Certified Professional in Agile Test Automation (ICP-ATA), Certified Professional in Agile Test Automation, students will need to pass the Learning Tree, Certified Scrum Developer certification path.

Q: How many CPD hours does this course provide?

The 2-day Agile Automation Testing Training (ICP-ATA Certification) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Agile Automation Testing Training (ICP-ATA Certification) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Agile Automation Testing Training (ICP-ATA Certification)?

Yes, we provide corporate training, dedicated training, and closed classes for Agile Automation Testing Training (ICP-ATA Certification). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Agile Automation Testing Training (ICP-ATA Certification), Agile Training, ATA

Q: Why choose Nexus Human for Agile Automation Testing Training (ICP-ATA Certification)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Agile Automation Testing Training (ICP-ATA Certification) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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