Introduction to Agile Testing

1 Day

Course Overview

This course is an introduction to Agile Development from a testing perspective. It explains the principles of Agile development using a risk-based approach to demonstrate the benefits. It compares Agile with more traditional approaches to highlight the key differences. It explains how a life-cycle approach to testing can be applied. Agile development depends on good skills and communication between staff, so we discuss the human side, motivation of staff and the relevance of skills taught by the ISEB/ISTQB qualifications.

Course Objectives

- To enable attendees to understand what Agile development is (and is not), and how it differs from other forms of development;
- to describe a typical Agile project lifecycle based on the ICONIX process showing all the steps from requirements to code, the nature of continuous development in increments and iterations;
- to give examples of lifecycle testing strategies used in Agile, and how we manage quality and risk;
- to discuss the use of test techniques at different stages of the lifecycle, and how those learnt in ISEB/ISTQB are applied;
- to give staff an understanding of what they need to consider next when making the transition to Agile testing.

Who Should Attend?

This course is for test analysts, team leaders and managers, development and project managers and users who will have a high involvement in an Agile project.

Syllabus – Key points

Why move to Agile development?

- Background to Agile and the Agile Manifesto
- Problems of waterfall and other development lifecycles;
- How Agile addresses risk and quality;
- How Agile enables lifecycle testing;
- Misconceptions about Agile

What does an Agile project look like?

- The processes in an Agile project, using the ICONIX method as an example;
- Use of incremental and iterative development, time-boxing and continuous development;
- Variations on the Agile theme such as XP, DSDM and SCRUM.
- Involvement of people, skills and disciplines needed to work together closely;

How does Agile change the way we test?

- Test planning and management in Agile environments;
- Risk-based approach to testing, aligning testing and test coverage to business needs;
- Lifecycle testing strategies such as FLOOT (Full Lifecycle Object Oriented Testing), how they compare with the V Model;
- Agile and OO/UML. OO and the UML are widely used in Agile, what are the testing implications?
- Static testing and use of reviews, the Agile inspection technique developed by Tom Gilb;
- Dynamic testing, text execution stages, black and white box testing techniques;
- Model-based testing with UML, developing a coherent test design from different behavioural models;
- Test driven development, using test design as a quality control activity by writing the tests before coding;
- The human dynamics, interactions between testers, developers and stakeholders required for successful Agile projects;
- Use to tools to automate Agile testing, FitNesse and FIT.

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Course deliverables

Each delegate shall receive a full set of course materials as both hard copy and on CD for future reference.

About tsg

The innovative Testing Consultancy that works with you to solve specific problems to help achieve your corporate objectives and maximize the return on investment you've made in your people, process and tools in three key, linked areas:

Learning & Development

- ISTQB, ISEB, Prince & ITIL certificated training in the classroom;
- ISTQB & ISEB certificated training over the Internet through Learntesting™;
- Tutor-led 'Academies' using real applications and templates that provide practical learning and experience through the entire life cycle of testing;
- Training needs analysis and tailored training programmes to meet your specific requirements.

Consultancy

- Using TSG's acknowledged industry experts and highly-experienced principal consultants;
- Our services support high-level strategic decision-making, demonstrating a record of measurable success;
- Bring success to your Agile testing projects.

Managed Services

- A tried and tested solution to the inherent problems of outsourcing or resourcing that brings success to projects whilst allowing them to still conduct business as usual;
- A compelling, time-based service in which TSG and its clients work cooperatively and share responsibility for testing success;
- Based on an SLA and a set of measures, our managed service is a true partnership that helps you run your BAU programmes whilst building capability into your people, processes and organisation.

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