QAEXPERTS

Manual QA in Agile

The vast majority of organizations nowadays use agile as the primary software development method. It can include pure agile and hybrid approaches. Consequently QA should feel like a duck to water in agile. It implies that besides the agile basics, QA is expected to know all the challenges the agile process can potentially bring to the project from quality assurance point of view and know how to successfully resolve them.

So if you would like to get or improve your skills in agile quality assurance or if you have a desire to get different views on the subject, you are welcome to take part in our workshop "QA in Agile".

Q Workshop format:

- 2 trainers

- 16 or less participants

- 2 days (16+ hours)

☰ Requirements:

- Professional level: Junior/Middle Manual QA (1+ year experience) and higher

DAY 1

🕐 10:00

Software development life cycle and methodologies. Introduction to Agile

- Introducing the speakers and auditory to each other. Describing the workshop goals
- Main software development methodologies.
- Introduction into Scrum and Kanban process. Benefits of Agile.
- Agile Manifesto.
- Scrum process visualtization.
- Process, roles, meetings, artifacts. Role of tester in agile.
- Requirements to an agile tester.

----------- ☕ Coffee Break (15 min) -----------

⚙ Practice: Scrum Penny Game

🕐 12:35

Introduction into development, project management, QA infrastructure and tools

- Development tools and infrastructure.
- Project & task management tools and infrastructure.
- Test management tools and infrastructure.

🕐 12:50

Testing process in Agile

- Reminder of testing process in General.
- Agile testing process on project, release, and milestone levels. Different sprint organization models.
- Different types of sprints and different testing approaches in them. Testing activities and their priority in sprints.

----------- ☕ LAUNCH (1 hour) -----------

🕐 14-50

Sprint QA Activities

- Test Design and test case maintenance in a sprint.
- New functionality testing in a sprint.
- Regression and smoke testing in a sprint/stabilization sprint.
- Types of regression testing: Cover, Selective, Full.
- Bug submission and retest in a sprint.
- Other types of testing in sprint.
- Task management system and its adjustment to QA process. Task management tool configuration recommendations.
- Recommended feature and bug Flow in a sprint. Test-entry/exit criteria. Definition of DONE.

⚙ Practice: Emulating testing process in a sprint. Sprint QA-flow in action.

----------- ☕ Coffee Break (15 min) -----------

🕐 17:00

Common SCRUM testing challenges

⚙ Practice: Revising and solving common difficulties with testing and development in a sprint/scrum. Revising related case studies.

- Continuous integration and continuous deployment approaches. Testing in them.
- Development Tools and branching strategy.
- Role of automation in agile. Adjustment of manual testing to automated testing.

🕐 18:10

Target platforms and test environments

- Target platforms definition and prioritization.
- Types of test environments and testing activities on them.

⚙ Practice: Target platforms definition and prioritization.

☰ Homework

DAY 2

🕐 10:00

Step back and Q/A

- Home work discussion and Questions/Answers.
- Reminder of the things learned previous day.

🕐 10:35

Testing throughout the software life cycle: seven testing principles. Test levels. Types of software testing

- Verification and validation.
- Seven testing principles.
- Test levels.
- Test types.

⚙ Practice: Target apps - defining test levels and test types

----------- ☕ Coffee Break (15 min) -----------

🕐 11:35

Test strategy/Master test plan. QA project startup questions

- Test strategy.
- Light-version Master test plan.
- Project Startup questions.

⚙ Practice: QA Startup questions.

🕐 12-45

QA estimations global

- QA estimation (global).

⚙ Practice: QA estimation (global).

----------- ☕ LAUNCH (1 hour) -----------

🕐 14:30

Sprint planning, estimation, and monitoring overview

- Level/Sprint test plan.
- Sprint estimating.
- Sprint monitoring.

- QA team size, structure, roles and responsibilities on the project/product level.

  ⚙ Practice: Planning and estimating sprint QA activities.

  ----------- ☕ Coffee Break (15 min) -----------

🕐 16:10

Requirements/User stories analysis. Other test bases

- Why are requirements important?.
- Characteristics of requirements.
- Typical quality problems of requirements.

  ⚙ Practice: Requirements' flow in real life

🕐 16:45

Test documentation in Agile

- Test cases, check lists and test suites.
- Test case statuses.
- Traceability matrix.
- Test coverage and status tracking boards.

🕐 17:15

Test management tools

- Test management tools.

- Test management tools configuration.
- Test suite organization for agile.

⚙ Practice

----------- ☕ Coffee Break (15 min) -----------

🕐 17:50

Release-readiness criteria. Test summary report

- Bugs types and priority.
- Bugs anatomy.
- Release-readiness criteria.
- QA metrics.
- Test summary report.

⚙ Practice: QA report creation.

🕐 19:05

Bonuses

- Problems in distributed teams - how to resolve them.

🕐 19:15

Closing-Up

- Overview of advanced QA workshops.
- Recommendations on further steps.
- Certificates Awarding ceremony.

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