Introduction to Test Automation
On-line – 2 Sessions

2
Sessions

Recommended for anyone looking at introducing to Test Automation to their organisation

Description
- An introduction to Test Automation. Planning on what tools to use, to cost/benefit analysis, through to demos & hands-on

Delivery Method
- Live online training course (Instructor-Led), delivered over 2 sessions of approximately 3.5 hours each. You will be provided an e-workbook for the course
- Sessions are recorded so you can review what you have learned at a later date

Course Pre-requisites
- None

Technologies Used
- Microsoft Playwright, Ranorex, Git/GitHub and some other tools will be used by the tutor in this course
- Delegates will get to try Playwright with a hands-on exercise

Key Points

Types of Test Automation
Types of Test Automation used in Functional & Performance Testing

Benefits and Risks of test automation
Benefits & Risks of Test Automation
Benefit/Cost analysis

Test Automation Suitability
Types of tests suitable to automation
What not to automate
Prioritisation of tests

Test Data Considerations
Demo example of test failure
Common problems arising from test data
Data protection / GDPR
Positive & Negative Testing
Tools for Test Data generation

Abstraction Layers and Frameworks
Code vs Keyword, Codeless and record & replay, A.I. generated Scripts, BDD/TDD frameworks
Ranorex example
Playwright example

Tool selection
Commercial vs Open source (pros/cons)
Support
Training
Language selection
Technologies supported
Framework support
Piloting

Hands-on for delegates
Microsoft Playwright

Guidelines for better Automation
Hints and tips to improve automation adoption success

Test Execution
Parallelisation, multiple machines
Unattended execution
Continuous Integration
GitHub Actions with demo