

Training Course Content

Tester Selenium Level Foundation

Certification A4Q – Alliance for Qualification

Duration : 3 days

Languages : EN & FR

The certification is based on practical training to bring an immediate return on investment for the projects. The course is complemented by hands-on training using the Python scripting language for Selenium.

The certification is an opportunity for participants to illustrate their mastery of test automation concepts with Selenium.

Learning Objectives

- Know the factors to consider when deciding to automate tests.
- Know specific techniques for navigation, interaction with GUI elements, data logging, reporting etc.
- Create and run Selenium Web tests independently.

Pre-requisites

- Have technical knowledge of programming languages such as Java and scripting languages such as Python
- Be initiated in test process activities - test design, test automation

Audience

This training is intended for Consultants, Test Consultants, IT Consultants, Technical Consultants.

Course Content

Basics of test automation

- Manual versus automated testing
- Success factors
- Risks and benefits of Selenium WebDriver
- Selenium WebDriver in the test automation architecture
- Metrics for automation
- The Selenium toolkit

Internet technologies for test automation of Web applications

- Understanding HTML and XML
- XPath and searching in HTML documents
- CSS Locator

Using Selenium WebDriver

- Logging and reporting mechanisms
- Navigating different URLs
- Change the context of the window
- Capture screenshots of web pages
- Locate graphical interface elements
- Get the status of GUI elements
- Interact with GUI elements using WebDriver commands
- Interact with user prompts in browsers

Web using WebDriver commands Prepare maintainable test scripts

- Maintainability of test scripts
- Waiting mechanisms
- Page Objects
- Keyword Driven Testing

The training is accompanied by practical work to practice scenarios and practical cases with Selenium with Selenium:

- TP1: Install python 3.x, pyCharm, create the project of the training, create a python file, create a function and execute with pytest.
- TP2: Xpath with chrome (F12) - Stop page execution. (F12 + Source + F8)
- TP3 : CSS selector with chrome (F12)
- TP4 : Logs and reporting (test failed console log), Navigation, opening and closing (Before and After), screenshot page and screenshot element.
- TP5 : Locate elements with id, xpath, css selector, manipulation text, checkbox, drop-down menus (with class Select)
- TP6 : Modal dialog (No tp on javascript alerts)
- TP7 : Synchronization: Sleep, ImplicitWait, ExplicitWait
- TP8 : PageObjects

Trainer skills

The experts who lead our training courses or those we organize with a partner are specialists in the subjects covered. They are validated by our in-house teams in terms of both business knowledge and pedagogy for each course they teach. They have a minimum of five to ten years experiences in their field and hold or have held positions covering the subjects in companies.