Course Title: Selenium WebDriver C#	**Course Duration**: 5.0 Days
Exam: Not Included	**Exam Type**: No Exam
Qualification: No Certificate	

Course Syllabus

Our Selenium WebDriver C# training course will cover the following topics:

Introduction To WebDriver

An overview of the Selenium tools, Unit testing Frameworks, and Supported Browsers.

Installation & Setup

Libraries & Extensions in VS, using NuGet to install the required libraries. How to organise your file structure.

First Test Case

Creating our initial NUnit Test, the import statements, invoking a browser, writing to the console, writing a simple script against the Web Site

Recording Tools

Recording & Exporting Scripts with Selenium IDE

Object Identification

Element locator strategies, Chrome Developer Tools and other extensions, Regular Expressions, Index, Xpath functions

Synchronisation

What is Synchronisation, Adding Delay, Implicit versus Explicit Waits, common examples

Capturing Values And Validation

How to capture values from the Web Site, Using Asserts, Execution Flow, Debugging Tools

Testing Structure

How to build more than one test, in a single Class, NUnit Fixtures, Execution Order, NUnit Traits/Categories, Playlists

Base Classes

Creating a Test Base Class to use through Inheritance for SetUp & TearDown

Helper Libraries

Reusable code, Common examples such as Handling Alerts & Pop-ups

Reporting

Console reporting, Taking Screenshots, Creating Dynamic HTML Results with Extent Reports

Cross-Browser Testing

Handling differences between Browsers, Tips for Edge & IE Browsers

Data-Driven Testing

Data driving your Tests using In-Line Test Data, using external sources such as CSV files

Introducing Page Objects (POM)

Refactoring our tests to use a page object model. Developing a library of pages (POMs). Fluent Coding.

Global Parameters

Using Application config files to store global values

Command Line Execution

Command-line execution with the NUnit Console Runner

Source Control

Integrating with Git & GitHub

Continuous Integration

Integrating with Jenkins or Azure DevOps for C.I.

Parallel Execution

Parallel Test Execution using NUint or Azure DevOps

Course Overview

Selenium WebDriver has become the standard tool for automated web testing. It has received an endorsement from W3C (World Wide Web Consortium), the community which works on web standards development and Selenium 4 is W3C compliant.

It is open-source and provides a powerful set of tools for testing your website. It is available on any platform and can be used with just about any web browser, including remote execution via Selenium Grid.

Our five-day Selenium WebDriver C# training course covers all the essential principles of using the Selenium WebDriver automation framework in Microsoft Visual Studio.

Course Learning Outcomes

Our Selenium WebDriver C# training course is available as on-site training at your location or as online training. Our online training is live, instructor-led in our virtual classroom. Selenium WebDriver C# is delivered over five-days, with each approximately 3.5 hours online. It can be delivered to up to 10 staff members from your organisation.

Audience

Our Selenium WebDriver C# training course is recommended for anyone new to Selenium.

Entry-Level Requirements

Our Selenium WebDriver C# training course has the following entry-level requirements:

- A basic understanding of HTML and how web pages are developed
- Some programming experience would be advantageous but not essential

Recommended Reading

There is no recommended reading associated with our Selenium WebDriver C# training course.

What's Included

You will receive comprehensive workbooks for the Selenium WebDriver C# training course.

Exam Information

There is no formal examination or certification associated with our Selenium WebDriver C# training course.

What's Next

Purple Griffon offer the following private virtual sessions for your team. Our Automated Software Testing training courses can be delivered on-site at your location or online for up to ten people:

- Complete Microfocus UFT
- Selenium WebDriver Java
- Selenium WebDriver JavaScript
- Cypress Introduction
- Cucumber Java
- Cucumber JavaScript
- SpecFlow

Call +44 (0)1539 736 828 now to discuss your training requirements and to book your sessions in the diary.

Additional Information

Our Selenium WebDriver C# training course covers all the essential principles of using the Selenium WebDriver automation framework in Microsoft Visual Studio. It is designed for beginners as well as testers with previous automation experience.

You can also integrate Selenium WebDriver into a huge variety of frameworks such as Cucumber, SpecFlow, Mocha etc, as well as testing frameworks such as NUnit, xUnit, JUnit, MSTest etc., and use your choice of assertion libraries. It also integrates very easily

into Continuous Integration Tools such as Jenkins, Azure DevOps, TeamCity etc.