PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists



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

## Course Syllabus

Our Selenium WebDriver JavaScript training course will cover the following topics:

**Introduction To JavaScript**

An overview of the History & Terms, Basic Syntax, Browser Dev Tools & the Console

**JavaScript In The IDE**

IDEs, VS Code, Node & Npm, Setting up the workspace, executing JS, VS Code features.

**First Test Case - WebDriverJS**

What is Selenium? Selenium Projects, installing WebDriverJS and Browser drivers, creating our first script

**Object Identification**

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

**Simple WebDriver Tests**

Creating a simple test, execution & failures, debugging tools

**Synchronisation**

JavaScript Asynchronous nature, Callbacks, Promises, Async/Await, Adding Delay, Implicit versus Explicit Waits, common examples

**Asserts**

Node Asserts, Chai Asserts, Chai Styles, installing and using Chai

**Mocha**

What is Mocha? Why use Mocha, Installation, using Mocha, Mocha Options, Hooks, Mocha Timeouts, Execution options

**Reporting**

Mocha --report option, installing and using Mochawesome, writing to the results

**Helper Libraries**

Reusable code, writing, exporting & importing methods from modules, Common examples

**Introducing Page Objects (POM)**

Introduction to why we do it and how it reduces maintenance. Refactoring our tests to use a page object model. Developing a library of pages (POMs)

**Handling Web Elements**

Handling Web Tables, Drop-Down lists, executing JavaScript in the Browser, Keyboard input & more

**Cross Browser Testing**

Using different web browsers, Selenium Grid

**Source Control**

Integrating VS Code with Git & GitHub, adding our project to Source Control

**Continuous Integration**

Command-line execution, integration with Jenkins or Azure DevOps

**Parallel Execution**

Parallel execution through Mocha, or through 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.

Our five-day Selenium WebDriver JavaScript training course is very comprehensive and covers all you need to know about Selenium WebDriver Java. It includes in-depth topics on locators (critical to reliable tests), Page Object Models, integration into CI tools. It also covers topics on Selenium Grid/Server and Selenium IDE.

## Course Learning Outcomes

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

## Entry-Level Requirements

Our Selenium WebDriver JavaScript 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 JavaScript training course.

## What's Included

You will receive comprehensive workbooks for our Selenium WebDriver JavaScript training course.

## Exam Information

There is no formal examination or certification associated with our Selenium WebDriver JavaScript 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 #C
- Selenium WebDriver Java
- 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 JavaScript is designed for beginners as well as testers with previous automation experience, it takes the new-comer to Selenium through all the basic techniques of writing effective automated web tests.