

# Playwright Test

## On-line Introduction

### Description

- Learn everything you need to get up and running quickly with Microsoft's Playwright Test Framework.

### Delivery Method

- Live online training course (Instructor-Led), delivered over 5 sessions of approximately 3.5 hours each. You will be provided an e-workbook for the course and homework exercises between sessions.
- Sessions are recorded so you can review what you have learned at a later date

### Course Pre-requisites

- None, although some experience with JavaScript/TypeScript would be advantageous

### Technologies Used

- Playwright Test Runner, NodeJS, JavaScript/TypeScript, Visual Studio Code, Git/GitHub

### Key Points

#### Introduction

What is Playwright, Technology stack, Web Browsers supported

#### JavaScript & TypeScript

Primer on JavaScript, Introduction to TypeScript

#### Visual Studio Code IDE

IDE Requirements, NodeJS, NPM, Installing & configuring VS Code, Executing JavaScript in VS Code

#### Playwright Test Setup

Frameworks, Installing Playwright-Test, Creating your first Playwright Test

#### Recording

Recording Scripts with the Inspector

#### Playwright Config

Config file options, Config precedence, baseURL, Web Browser options, Browser Navigation, Project definitions.

#### Locators

Playwright built-in Locators, Chrome Development Tools, Class & CSS, Text, XPath Chrome extensions, Playwright Inspector, Scoping Elements, Regular Expressions

#### Actions

Common Playwright Actions

#### Assertions

Assertion Libraires, Web Elements, Page Assertions, Locators vs. Element Handles

#### Capturing Element Attributes

Specific Methods, Generic Methods for capturing data from the Web Application.

#### Synchronisation (Waits)

Autowait, Local Timeouts, Test Spec Timeout, Global Timeout Config, Static Waits

#### Debugging

Browser Settings, VS Code Node Debugger, Playwright Test Debugger with Inspector, Trace Mode

#### Hooks & Test Annotations

Grouping Tests into Test Suites, Skipping Tests, Using Filter Tags, Hooks

#### Page Object Model

What is the POM?, how to implement it into Playwright-Test

#### Data-Driven Testing

Different approaches to using global data within Test Specs.

#### Screenshots

Capturing Screenshots, Video & PDFs. Image Validation

#### Reporters

Built-in Reporters, Allure-Playwright

#### CLI, Parallelism & Sharding

Command-line Execution, Executing tests in Parallel, Sharding across machines

### Extras

#### API Testing

The Request Fixture, executing API tests against a REST Server

#### Global Setup/Teardown & Storage States

Capturing login storage state and re-using in other tests

#### GitHub Actions

Executing tests automatically against GitHub VMs

5

Sessions

The comprehensive course for writing effective Playwright Web Tests

Recommended for any new users of Playwright