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# Microsoft Playwright training: Automate your web browser tests

2 days (14 hours)

## Presentation

Our Microsoft Playwright training course enables developers to improve their skills on Microsoft's innovative tool for automating web browser tests.

Thanks to this training, you'll be able to create, customize and optimize test scripts for interactive web applications on different browsers and devices.

This course will enable you to improve the quality and reliability of your web applications through advanced testing strategies. You'll be able to quickly create new tests, interact with your application as a real user would, and check that everything is working as expected.

This course will introduce the [latest features](#) and functions available in Playwright.

## Objectives

- Understand Playwright's basic and advanced features
- Create and customize test scripts for different user interactions
- Master the use of the Playwright API to automate testing on different browsers and devices
- Understand best practices for writing robust and reliable tests

## Target audience

- Developers
- QA testers

- Test automation engineers

## Prerequisites

- Experience with JavaScript and asynchronous programming
- Basic knowledge of automated testing would be a plus

## Our Microsoft Wright training program

### Introduction to Microsoft Playwright

- Introducing Microsoft Playwright
- Installing Playwright
- Support for various browsers (Chromium, Firefox, WebKit)
- Introducing the Playwright API
- Basic syntax
- Introduction to browser automation with Playwright

### Web page elements

- Elements on the page
  - CSS/XPath selectors
- Interaction with page elements (click, type, read content, etc.)
- Waiting for elements and content
- Form input handling (type, check, uncheck, select, etc.)
- Screenshot and video of a page
- Page event management (navigation, dialog, etc.)
- Working with nested frames

### Advanced navigation and session management

- Multiple page navigation
- Tab and window management
- Cookie and session management
- Manage basic authentication and HTTP requests
- File download and upload management
- DOM manipulation via client-side script execution
- Use of incognito contexts

### Test with Playwright

- Introducing the Playwright test tool
- Writing basic tests
- Test organization (test suites, hooks, etc.)

- Assertion management
- Managing failures and errors
- Generate and analyze test reports
- Debugging techniques in Playwright

## Playwright in production

- Setting up a CI/CD environment with Playwright
- Configuration for different environments (local, preprod, prod)
- Best practices for performance and reliability
- Production test monitoring
- Handling common problems and troubleshooting
- Summary of Playwright's advanced functions
- Future prospects and Playwright updates

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.