



PLAYWRIGHT LABS

Complete **Playwright** **Automation** Testing Syllabus

A structured, hands-on curriculum — from JavaScript fundamentals to advanced Playwright frameworks, CI/CD, API testing, and AI-assisted automation.

JavaScript Foundation · 12–15 Sessions

Playwright Automation · 25–30 Sessions

40+

Total Sessions

9

Core Modules

6 mo

Recording Access

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JavaScript Foundation

Core programming skills every automation engineer needs before writing a single Playwright test.

✓ Introduction to JavaScript

VS Code setup, Live Server extension, comments & statements

✓ Operators

✓ Loops & Jump Statements

while, do-while, for

✓ Working with Objects

✓ Date Constructor

Build a digital clock with JS

✓ Exception Handling

✓ Static Keyword

✓ Inheritance

Overriding, super keyword

✓ Polymorphism

✓ JavaScript vs TypeScript

✓ Variables & Data Types

✓ Conditional Statements

if, if-else, switch case

✓ Functions

✓ Arrays & Array Methods

✓ Strings & Numbers

✓ OOP Concepts

Class, objects, methods, constructor

✓ Encapsulation

✓ Prototype in JS

✓ JSON ↔ JavaScript Object Conversion

Playwright Automation

End-to-end, hands-on Playwright training — from your first test to production-grade frameworks.

1 Getting Started

3 topics

✓ Introduction to Playwright

✓ Installation & Environment Setup

✓ Creating & Running Tests in VS Code

2 Locators & Assertions

4 topics

✓ Locating Elements
XPath & CSS

✓ Built-in Playwright Locators

✓ Test Generator
Codegen tool

✓ Hard & Soft Assertions

3 Working with UI Elements

4 topics

✓ Form Elements
Textboxes, buttons, checkboxes, radio buttons

✓ Dropdowns
Static & auto-suggest

✓ Popups
HTML popups, JS alerts, notifications, file uploads

✓ Frames & Multiple Windows

4 Interactions & Advanced Handling

3 topics

✓ Calendar / Date Pickers

✓ Mouse & Keyboard Actions
Hover, right/double-click, drag & drop, key operations

✓ File Upload Handling

Frameworks, Reporting & DevOps

Build production-ready automation frameworks and wire them into real CI/CD pipelines.

5 Advanced Playwright Concepts

6 topics

✓ Playwright Hooks

✓ Grouping Tests

✓ Capturing Screenshots

✓ Trace Viewer

✓ Tagging Tests

✓ Playwright Annotations

6 Reporting

2 topics

✓ Built-in Playwright Reports

✓ Allure Reports

7 Framework Design

3 topics

✓ Playwright Test Framework

✓ Page Object Model (POM) Framework

✓ Cucumber-JS BDD with Playwright

8 Version Control & CI/CD

4 topics

✓ Git & GitHub

✓ Jenkins

✓ GitHub Actions

✓ Docker

AI, Migration, API Testing & Career Prep

Stay current with modern Playwright tooling and finish interview-ready.

9 Modern Playwright & AI

5 topics

✓ Playwright MCP
Model Context Protocol

✓ Playwright Fixtures

✓ Playwright AI & GenAI Integration

✓ AI Editors & Agents

✓ Built-in Agents (*New*)
Plan, Generator, Healer

10 Migration & API Testing

2 topics

✓ Migrating to Playwright
From Selenium (Java/Python) & Robot Framework

✓ API Testing with Playwright
REST APIs — GET, POST, PUT, DELETE

11 Career Readiness

2 topics

✓ Interview-Oriented Session

✓ Resume Preparation

What You Get

Live instructor-led sessions, hands-on labs, real-world capstone projects, and recorded session access for 6 months after your batch ends.

Ready to Start Automating?

Book a free demo class and see the full curriculum in action
before you enroll.

Book Your Free Demo Class

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