KRN INFORMATIX

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+	9	6 mo
Total Sessions	Core Modules	Recording Access

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MODULE 01

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
- ✓ Variables & Data Types
- ✓ Operators
- ✓ Conditional Statements
  if, if-else, switch case
- ✓ Loops & Jump Statements
  while, do-while, for
- ✓ Functions
- ✓ Working with Objects
- ✓ Arrays & Array Methods
- ✓ Date Constructor
  Build a digital clock with JS
- ✓ Strings & Numbers
- ✓ Exception Handling
- ✓ OOP Concepts
  Class, objects, methods, constructor
- ✓ Static Keyword
- ✓ Encapsulation
- ✓ Inheritance
  Overriding, super keyword
- ✓ Prototype in JS
- ✓ Polymorphism
- ✓ JSON ↔ JavaScript Object Conversion
- ✓ JavaScript vs TypeScript

MODULE 02

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

MODULE 02 · CONTINUED

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

MODULE 02 · CONTINUED

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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