



Playwright Automation Testing Training

 **Master End-to-End Automation with Playwright**







 **Duration:** 2 Months

Playwright is a modern, fast, and reliable framework for cross-browser testing. Our training program is designed to take you from **beginner to advanced** with hands-on exercises, live projects, and industry-level frameworks.



By the end of the course, you'll be ready to **build automation frameworks, integrate with CI/CD, and crack automation interviews.**





Training Roadmap

Module 1: Foundations








-  Introduction to Playwright → What it is, why it's popular, and use cases.
-  Why Playwright? → Speed, reliability, and cross-browser support.
-  Selenium vs Playwright → Performance and capabilities comparison.
-  Tools & Technology Overview → Node.js, NPM, VS Code, Git essentials.
-  DOM Fundamentals → Structure of web pages for automation.
-  Git Basics & Version Control → Master Git commands.

Module 2: JavaScript Fundamentals








-  Variables & Data Types → Store and use data efficiently.
-  Operators & Expressions → Logical operations in tests.

-  Loops & Conditionals → Reusable workflows.
 -  Arrays & Objects → Manage test data effectively.
 -  Functions & Arrow Functions → Modularize your code.
 -  Async / Await → Handle asynchronous operations.
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Module 3: Playwright Essentials

-  Installation & Setup → Install and configure Playwright.
 -  Test Execution → Run tests via CLI & UI.
 -  Test Structure & Hooks → Organize tests with hooks.
 -  Interaction with Web Elements → Automate clicks, typing, dropdowns.
 -  Handling Timeouts → Prevent flaky tests.
 -  Locator vs Generic Assertions → Best practices.
 -  Dealing with UI Components → Automate modals, sliders, date pickers.
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Module 4: Test Design & Best Practices

-  Page Object Model (POM) → Modular framework design.
 -  Framework Design Concepts → Build scalable frameworks.
 -  DRY Principle → Avoid duplication.
 -  KISS Principle → Keep tests simple.
 -  Test Retries → Reduce flaky tests.
 -  Parallel Execution → Faster runs.
 -  Screenshots & Videos → Debugging & reporting.
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Module 5: API Testing

-  Postman Basics → API workflows.
 -  API Fundamentals → REST, methods, status codes.
 -  API Automation → Playwright-based API tests.
 -  Framework Design → Integrated API + UI framework.
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Module 6: Configurations & Environment Handling

-  Environment Variables → Secure data.
 -  Config Files → QA, Staging, Prod setups.
 -  Fixtures → Reuse sessions.
 -  Project Setup & Teardown → Automation setup.
 -  Global Setup & Teardown → Manage at scale.
 -  Test Tags → Organized execution.
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Module 7: Advanced Playwright

-  NPM Scripts & CLI Commands → Simplify execution.
 -  Mobile Device Emulation → Cross-device testing.
 -  Reporting & Insights → Generate reports.
 -  Email Integration → Automated reporting.
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Module 8: CI/CD & DevOps

-  CI/CD Basics → Continuous integration & deployment.
 -  Jenkins Pipeline → Setup in Jenkins.
 -  Git Collaboration → Framework teamwork.
 -  Test Reporting → CI/CD dashboards.
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Module 9: Artificial Intelligence in Playwright


-  GitHub Copilot → AI-generated scripts.
 -  Prompt Designing → Effective AI prompts.
 -  MCP Integration → Machine learning optimizations.
 -  AI-Assisted Debugging → Detect flaky tests.
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Module 10: Career Preparation

-  Live Project → End-to-End Automation.
 -  Resume Preparation → Showcase skills.
 -  Mock Interview 1 → Technical prep.
 -  Mock Interview 2 → Confidence building.
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Contact Us

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