

Playwright JS/TS, Agentic AI, MCP & Selenium Training Syllabus

By QA India | Trainer: Amit Belgi | +91-93808 74255

MODULE 1 - SOFTWARE TESTING	MODULE 4 - UI AUTOMATION USING PLAYWRIGHT
- What is Software Testing? - Importance of Software Testing - Basics of Manual Testing - Test Plan - Test Strategy - Test Scenarios & Test Cases - Selenium vs Playwright – Comparison & Use Cases	- Handling Dropdowns - Handling Radio Buttons & Checkboxes - Handling Windows & Tabs - Handling Alerts & Pop-ups - Handling Frames / iFrames - Handling Web Dialogs - File Upload & Download - Keyboard & Mouse Actions - Screenshots & Video Recording - Handling Dynamic Web Elements
MODULE 2 - JAVASCRIPT & TYPESCRIPT	MODULE 5 - PLAYWRIGHT TOOLS & DEBUGGING
- Introduction to JavaScript & TypeScript - Node.js Basics & NPM - Understanding Data Types - Variables – var, let & const - Operators - Conditional Statements - Loops - Arrays - Functions - Objects - TypeScript Basics & Type Annotations	- Playwright Inspector - Playwright Trace Viewer - Playwright Codegen - Debugging Playwright Tests - Test Configuration & Playwright Config
MODULE 3 - PLAYWRIGHT	MODULE 6 - PLAYWRIGHT END-TO-END AUTOMATION PROJECT
- Introduction to Playwright - Installation of Node.js & Visual Studio Code - Playwright Setup & Project Structure - Browser, Browser Context & Page - Async/Await - Locators & Locator Strategies - Extracting Text and Attributes from Web Elements - Understanding Wait Mechanisms - Web Elements & Element Interactions	- Small End-to-End Web Automation Practice Project - Creating Test Scenarios & Test Cases - Automating Complete User Workflows - Reusable Test Components - Execution, Debugging & Reporting
	MODULE 7 - API TESTING USING PLAYWRIGHT
	- API Testing Basics - Request Headers, Parameters & Payloads - API Assertions & Response Validation
	MODULE 8 - NETWORK INTERCEPTION & MOCKING
	- Understanding Network Requests - Network Interception - Request Modification - Response Mocking - Testing Applications with Mock APIs

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MODULE 9 - VISUAL TESTING USING PLAYWRIGHT	MODULE 13 - AI AGENTS, MCP & AI-ASSISTED AUTOMATION
- Introduction to Visual Testing - Screenshot Comparison - Visual Regression Testing - Handling Visual Differences	- Introduction to AI Agents - Agentic AI in Software Testing - MCP – Model Context Protocol Basics - Playwright Agents - Automation AI Agents with MCP - AI Agents in VS Code with GitHub Copilot
MODULE 10 - TESTING FRAMEWORK, REPORTING & CI/CD	MODULE 14 - PLAYWRIGHT CLI & CLAUDE CODE
- HTML Reports - Allure Reports - Test Execution & Result Analysis - CI/CD Overview - Jenkins Integration - Running Playwright Tests through Jenkins - Automated Test Execution in CI/CD Pipeline	- Playwright CLI Basics - Introduction to Claude Code - Using Claude Code with Playwright
MODULE 11 - GEN AI IN TESTING	MODULE 15 - SELENIUM AUTOMATION (RECORDING)
- Introduction to AI & Generative AI - AI vs ML vs DL vs GenAI - Understanding LLMs - How ChatGPT Works – High Level - Understanding Tokens - AI-Assisted Test Case Generation - Test Plan & Test Strategy Generation using AI - Bug Report Generation using AI - Automation Script Generation using AI - AI-Assisted Test Data Generation	- Automation Testing Overview - Selenium WebDriver Architecture - Selenium Setup with Java - Locators & XPath Strategies - Handling Web Elements - Dropdowns, Checkboxes & Radio Buttons - Waits – Implicit & Explicit - Dynamic Web Tables - Scrolling - Cookies Handling - Mouse & Keyboard Actions - Pop-ups, Tabs & Windows - Frames & Alerts
MODULE 12 - PROMPT ENGINEERING FOR TESTERS	MODULE 16 - KEY HIGHLIGHTS
- What is Prompt Engineering? - Why Testers Need Prompt Engineering - Context, Constraints & Clarity – 3C Rule - Structure of a Good Prompt - Prompts for Test Cases & Automation	- Practice on a Live Website - Magical Naukri Profile Session - Customized Notes - Interview Preparation - Resume Writing Assistance - Recorded Sessions Provided

BATCH DETAILS

Batch Timing	9:30 PM – 11:00 PM (Weekdays)
Duration	3 Months
Fees	Rs 7,500/-
Contact	+91 93808 74255 — Amit Belgi

This syllabus is indicative and may be enhanced during the course to reflect the latest industry practices.