

**START YOUR
PLAYWRIGHT
WITH JAVASCRIPT
CAREER TODAY!!**

CREDO SYSTEMZ

**Playwright With
JavaScript
Program**

Capstone Projects :

Real Time Playwright With
JavaScript Training Projects



News Scraper & Verifier

Automate news portal with Playwright: verify layouts, headlines, timestamps, and navigation.



E-Commerce Website Test Suite

Automate product search, add-to-cart, checkout, and payment flow testing on an online shopping site.



Login Authentication Test App

Create Playwright scripts to validate login, multi-factor authentication, and session management for web apps.



Form Validation & Data Entry Automation

Automate form filling, input validations, and error message checks for user-facing applications.



API + UI Integration Testing

Combine API testing with UI validation in Playwright to ensure data consistency between backend and frontend.



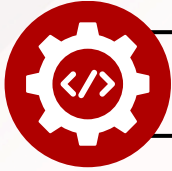
Reporting Dashboard Automation

Build automated test scripts for dashboards to verify charts, filters, and dynamic data updates.



Playwright

Opportunities & Demand



Automation Test Engineer



Test Automation Architect



Test Automation Engineer



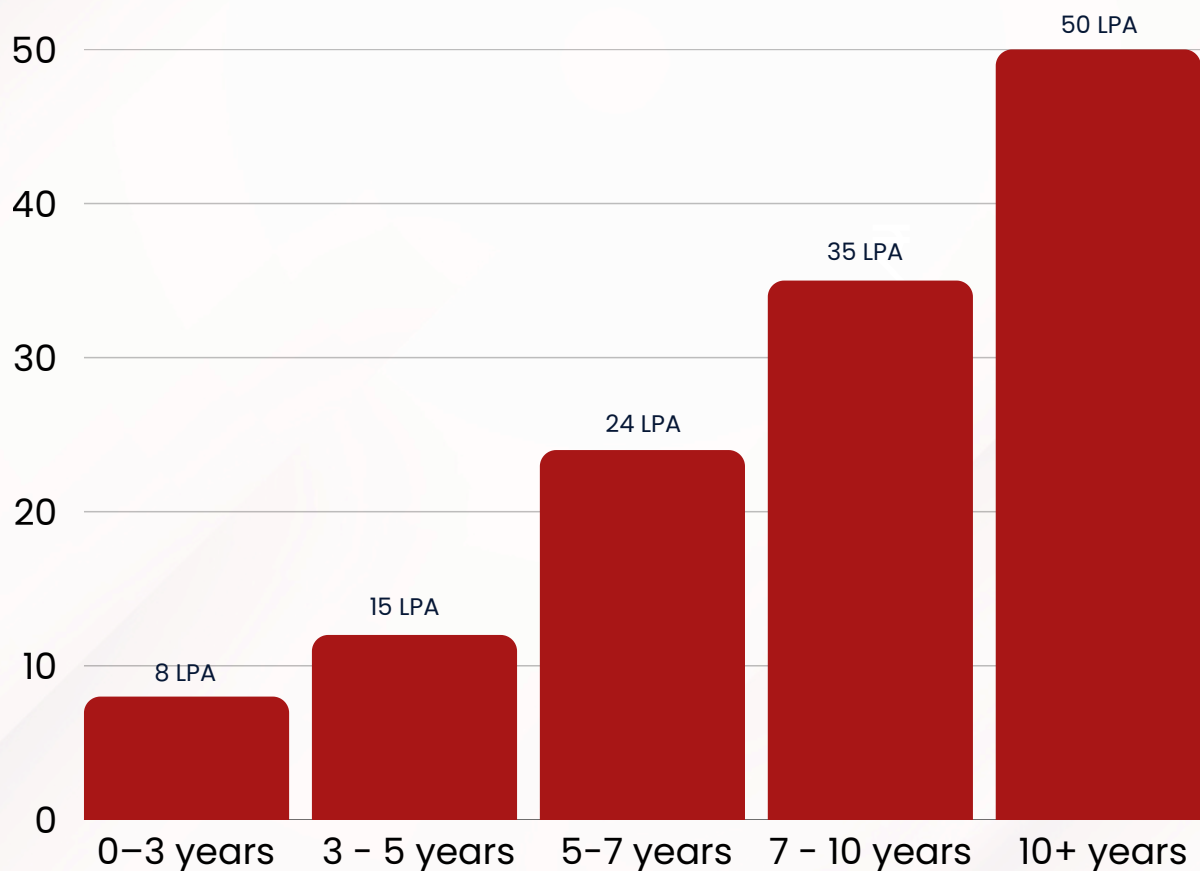
Performance Tester



Software Engineer



CI/CD Test Engineer



PLAYWRIGHT COURSE SYLLABUS

PLAYWRIGHT WITH JAVASCRIPT + TYPESCRIPT

Duration : 40 hrs

Section 1 : AI in Software Testing

What is AI in Software Testing?

- Basic idea of Artificial Intelligence
- How AI is used in testing today
- Difference between AI, automation, and manual testing
- How AI understands test cases and gives results
- Benefits: faster, smarter, and more accurate testing

How Testers Use AI Tools

- Create test scripts automatically from simple inputs
- Predict bugs and errors early
- Fix broken locators
- Generate smart test data using AI
- Learn new testing tools with AI help

Popular AI Tools for Testers

- Codeium – Free AI coding assistant
- Testim – Self-healing and fast AI testing
- Mabl – No-code testing with AI maintenance
- GitHub Copilot – AI code completion for tests
- Katalon – AI-powered web and API testing
- Functionize – Plain-English test creation

Section 2: INTRODUCTION

- What is automation testing?
- When Automation Testing is needed?
- What is the use of automation testing?
- Different Automation Tools available in the Market.
- What is the difference between Playwright and Selenium?

● Section 3: BASICS OF JAVASCRIPT

- Setup Node JS and Javascript.
- JavaScript History Introduction.
- JavaScript Engines.
- Data Types in JavaScript.
- Types of variables.
- Operators.
- Conditional Statements.
- Looping Statements.

Real Time Practicals

- Implementing Calculator Functionality

AI in Action:

- AI autocompletes JavaScript, generates examples, explains syntax

● Section 4: HEART OF JAVASCRIPT

- Introduction of Functions.
- Method vs Functions.
- Function Declaration or Anonymous function.
- Arrow Function
- Call Back Function
- Call Back Hell
- Declaring Promise and Status of Promise
- Invoking Promise
- Async and Await
- RegExp

AI in Action:

- AI debugs callbacks/promises, optimizes loops and regex

● Section 5: Data Structures

- Array Methods
- Object
- Set Map
- String Methods

AI in Action:

- AI creates sample datasets, generates practice problems

● **Section 6: OBJECT ORIENTED PROGRAMMING CONCEPTS**

- Introduction to OOPS
- Class
- Object
- Constructors
- Methods
- Static
- Abstraction
- Encapsulation
- Polymorphism
- Exception Handling

Real Time Practicals

- Javascript logical programs from interview point of view 2
- Interview questions discussion

AI in Action:

- AI makes class templates, converts procedural code to OOP

● **Section 7: BASICS OF TYPESCRIPT**

- Setup TypeScript
- Type Annotation
- Functions
- Classes
- Constructor
- Access modifiers
- Interface
- Generic

Real Time Practical

- Implementing calculator Functionality

AI in Action:

- AI suggests types/interfaces, converts JS to TypeScript

● Section 8 : INTRODUCTION TO PLAYWRIGHT

- What is Playwright?
- Playwright Vs Selenium
- Advantages of Playwright
- Architecture of Playwright

AI in Action:

- AI explains architecture visually, suggests real-world use cases

● Section 9 : GETTING START WITH PLAYWRIGHT

- Maven Setup
- Adding Playwright Dependencies

AI in Action:

- AI generates setup scripts, installs dependencies per OS

● Section 10 : INTERACTING WITH BROWSER

- Launching Chrome, Edge, Firefox and Webkit.
- Performing Browser Actions like Maximize and Handling Cookies.
- Interacting with CDP.

AI in Action:

- AI suggests automation sequences, optimizes CDP scripts

● Section 11: LOCATORS IN PLAYWRIGHT

- CSS
- XPath

Real Time Practicals

- Interview questions discussion

AI in Action:

- AI generates CSS/XPath locators, uses visual AI for element detection

● Section 12 : EXPLORING WEB ELEMENTS

- Edit box
- ink
- Button
- Checkbox
- Radio Button
- Drop Down Box
- Select value
- Display all values
- Select values step by step
- Capture screenshots
- Synchronization Commands in Playwright
- HandlingWebTables

Real Time Practicals

- Performing end to end scenarios in Ecommerce application
- Performing end to end scenarios in user registration application
- Handling web tables in the live score card
- Performing Functionality test in the banking application

AI in Action:

- AI writes reusable functions, validates UI with screenshots

● Section 13 : Handling Frames, Alerts and Pop Up Window

- Handling iFrames
- Handling multiple tabs
- Handling popups
- File uploads and File downloads
- Handling alerts
- Handling confirmation messages

AI in Action:

- AI suggests handling code, verifies popups with image recognition

● Section 14 : Handling complex User Gestures

- Handling Mouseover Menu

- Handling Slider
- Handling Drag and Drop
- Handling Shadow DOM
- Handling Keyboard Event

AI in Action:

- AI generates scripts for gestures, recommends simulation libraries

● **Section 15 : Capturing Screenshot, Videos and Trace viewer**

- Capturing Screenshot
- Capturing Videos
- Capturing Trace Viewer

AI in Action:

- AI compares screenshots, removes false positives

● **Section 16 : DATA DRIVEN FRAMEWORK**

- Interacting with Database
- Interacting with Property File
- Interacting with XML
- Interacting with Excel

Real Time Practicals

- Retrieving values from the property file and perform end to end scenarios in live projects.
- Reading and writing values from the excel file and perform end to end scenarios in live projects.

AI in Action:

- AI creates CSV/JSON/Excel data, parses large files

● **Section 17 : FRAMEWORK**

- What is Page Object Model
- Adding Test and Pages
- Locators in Page Object Model

- Implement Exception Handling
- Implement Wrapper methods.
- Page Object Manager
- Parametrized Methods

Real Time Practicals

- Implementing the live project using TestNG

AI in Action:

- AI scaffolds Page Object Models, generates wrapper methods

Section 18 : Test Runner

- Introduction of Test Runner
- Grouping
- Filtering
- Skipping
- Only Keyword
- Test Level configuration
- Test Retry.
- Overriding config at Test and Project Level
- Test Suite
- Test Step
- Compatibility Testing
- Custom Report
- Framework Best Practice

Real Time Practicals

- Implementing the live project using TestNG

AI in Action:

- AI optimizes test order, suggests grouping/filtering strategies

Section 19: Working with API

- What is API?
- API Fundamental
- Restful API Payload and Verbs
- CRUD Operation

- API Authentication
- API Request
- API Response
- Validating API Response
- Network interception.

AI in Action:

- AI writes API tests from Swagger docs, validates responses

● **Section 20: CI TOOLS**

- GIT and GIT Hub
- Install Jenkins
- Schedule the build
- Best Practices



SKILLS AND TOOLS

Skills Covered

Test Writing



Locators



Debugging



API Mocking



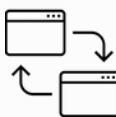
Data-Driven



Headless Mode



Cross-Browser



Alerts



Tools Covered

JUnit



Playwright Java



TestNG



Maven



Gradle



Allure Report



Extent Reports



GitHub Actions



Jenkins



IntelliJ IDEA



Typescript



Javascript



PLACEMENT SUCCESS STORIES

Designation Company Package
.....



Yuvaraj

Automation Test Engineer



9.5 LPA



Subbiah M

QA Automation Engineer



8.5 LPA



Srivarshini

Software Tester



6.8 LPA



Subritha

Automation Test Engineer



8.6 LPA



Gokulnath

Automation Tester



7.0 LPA



Naveen Prabhu

QA Automation Engineer



11.2 LPA



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30K Global companies around the world.



WHAT OUR **TRAINEE** SAYS?



Santhosh

4.7 ★★★★★

Credo Systemz provided a great learning experience. The Playwright course was detailed, with real-world examples and hands-on projects. The trainer's support made learning smooth and effective. Very useful for professionals.



Fathima Banu

4.2 ★★★★★

Excellent Playwright with java training at Credo Systemz. The trainer explained every topic step by step, with coding practice. Assignments made concepts clear. I now feel confident applying automation testing at work.



Prakash Jain

5.0 ★★★★★

Great experience at Credo Systemz! The Playwright course was industry-focused, with hands-on coding and project practice. Daily assignments helped me master concepts quickly. Very good institute for learning automation testing.



Saindhavi

4.9 ★★★★★

I learned Playwright with Java at Credo Systemz. The trainer was supportive, cleared doubts patiently, and encouraged practice. The course was well-structured and practical, helping me gain strong automation testing skills.



Jesuraj. F

4.0 ★★★★★

Credo Systemz provided excellent Playwright with JavaScript training. Practical sessions, clear explanations, and useful examples made learning automation much easier.



Anjali Ravi

4.5 ★★★★★


Very satisfied with the Playwright with JavaScript training. The trainer explained topics clearly, with live coding examples. Daily tasks made learning easier. Credo Systemz is highly recommended for automation learners.



CHENNAI


VELACHERY

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, (Opp. to Murugan Kalyana Mandapam), Chennai – 600 042.

 +91 98844 12301

OMR

Plot No.8, Vinayaga Avenue, Rajiv Gandhi Salai, (OMR), Okkiampettai, (Behind Okkiyampet Bus Stop) Chennai – 600 097.

 +91 96001 12302

OVERSEAS

USA

Houchin Drive, Franklin, TN -37064. Tennessee

UAE

Sima Electronic Building, LLH Opposite, Electra Street – Abu Dhabi