



JAVASCRIPT

PROXIES . CLOSURES . PROTOTYPING
DOCUMENT . EVENTS . FETCH . STORAGE
ASYNC . MODULES . TOOLING

DURATION

50 Hours

LEVEL

**Beginner to
Advanced**

MODULES

8

MODE

**Classroom ·
Online · Hybrid**

01 COURSE OVERVIEW

A JavaScript course covering the language itself, browser APIs and modern tooling. The course goes deep on the parts that cause bugs: coercion, scope, closures, this, prototypes, the event loop and async patterns. Browser APIs, modules, bundlers and testing follow.

Learners build interactive interfaces and a small single-page application without a framework.

WHO IT IS FOR

Beginners to web development

Designers adding interactivity

Backend developers moving to full stack

Developers preparing for framework work

PREREQUISITES

Basic HTML and CSS familiarity.

02 LEARNING OUTCOMES

01 Explain coercion, scope, closures and this.

03 Manipulate the DOM and handle events efficiently.

05 Reason about the event loop and async ordering.

07 Write unit tests and debug in the browser.

02 Work with arrays and objects idiomatically.

04 Fetch and render remote data with error handling.

06 Use modules, bundlers and package tooling.

03 MODULE STRUCTURE

8 MODULES

01 LANGUAGE CORE

Types and coercion

Operators

Functions

Variables and scope

Control flow

Strict mode

LAB

LANGUAGE DRILLS

02 FUNCTIONS AND CLOSURES

First-class functions

Higher-order functions

call, apply, bind

Closures

this binding

Arrow functions

03 OBJECTS AND ARRAYS

Object literals

Spread and rest

Immutability patterns

Destructuring

Array methods

JSON

LAB

DATA TRANSFORMATIONS

04 PROTOTYPES AND CLASSES

Prototype chain

Classes

Getters and setters

Constructors

Inheritance

Symbols and iterators

05 DOM AND EVENTS

Selection and traversal

Event flow

Forms and validation

Creating nodes

Delegation

Accessibility basics

LAB

INTERACTIVE UI

06 ASYNC JAVASCRIPT

Event loop

Promises

Error handling

Fetch and streams

Callbacks

async/await

AbortController

LAB

DATA-DRIVEN PAGE

07 MODULES AND TOOLING

ES modules

Vite

Linting

Environment variables

npm

Babel and transpiling

Source maps

08 TESTING AND PATTERNS

Vitest or Jest

Debugging tools

Performance basics

DOM testing

Common patterns

Security pitfalls

PROJECT

FRAMEWORK-FREE SPA

04 ASSESSMENT & CERTIFICATION

Module assignments and labs	25%
Mini projects	20%
Internal assessments	15%
Final project and review	40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

FRONT-END DEVELOPER

JAVASCRIPT DEVELOPER

FULL STACK DEVELOPER

WEB DEVELOPER

UI ENGINEER

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