Phase 2: Comprehensive JavaScript

JavaScript is among the most powerful and flexible programming languages on the web. It powers the dynamic behaviour on most websites, including this one. You'll get to understand how to incorporate JavaScript in complex web apps using concepts such as classes, promises, async/await, and requests.

Course Outcomes

After this completing this specialization, you will be able to:

- understand programming fundamentals and object-oriented concepts using the latest JavaScript syntax
- understand how JavaScript runs in the browser including currying, hoisting, and concurrency
- structure large-scale web apps using classes and modules
- to increase the efficiency of your apps using asynchronous functions
- add jQuery to web pages and how to traverse the DOM
- use effects, event handlers and style methods

Curriculum

Comprehensive JavaScript

You are required to complete all lessons, quizzes, and projects in the course. You do not have to submit any of these projects at this time. You will be assigned a *Portfolio Group Project* towards the end of the course. The course chapters are outlined below:

1. Welcome to Learn JavaScript
2. Introduction: JavaScript Syntax, Part I
3. Introduction to JavaScript
4. Learn JavaScript Conditionals
5. Learn JavaScript Syntax: Functions
6. Learn JavaScript Syntax: Scope
7. Challenge Project: Number Guesser
8. Learn JavaScript: Arrays
9. Learn JavaScript Syntax: Loops
10. Learn JavaScript: Objects
11. Learn JavaScript Syntax: Iterators
12. Learn JavaScript Syntax: Errors and Error Handling
13. Pair-Programming: JavaScript Syntax Part I and II
14. Challenge Project: Credit Card Checker
15. Challenge Project: Mysterious Organism
16. Introduction: Building Interactive Websites
17. JavaScript and the DOM
18. DOM Events with JavaScript
19. HTML Forms
20. Learn JavaScript Syntax: Classes
21. Learn JavaScript Syntax: Modules
22. Learn JavaScript Syntax: Error Handling
23. Pair-Programming: JavaScript Syntax, Part III
24. Find Your Hat
25. Introduction: Async JavaScript and HTTP Requests
26. Basics of Asynchronous JavaScript
27. Learn JavaScript Syntax: Promises
28. Learn JavaScript Syntax: Async-Await
29. APIs and HTTP Requests
30. Learn JavaScript Syntax: Requests
31. Introduction to Web Security
32. JavaScript Under the Hood
33. JavaScript Best Practices
34. Learn jQuery: Introduction
35. Learn jQuery: Effects
36. Learn jQuery: Event Handlers
37. Learn jQuery: Style Methods
38. Learn jQuery: Traversing the DOM

Training Assessments

The various assessments required in the course are outlined in this section. You must complete all assessments as you progress through the course.

Moreover, each assessment can be taken twice, with the highest score being recorded. You must usually wait 2 to 3 days after your initial attempt before making a second attempt.

CATEGORY	TITLE	URL
JavaScript	JavaScript Frontend Test 1	https://app.codesignal.com/public-test/fr2xLs63DKukmYb45/x7ZEcvYDEsepCZ
JavaScript	JavaScript Frontend Test 2	https://app.codesignal.com/public-test/TPJNnP8HYXdTY9GHo/L6RfoWMEhjacdg
JavaScript	JavaScript Intermediate Algorithms	https://app.codesignal.com/public-test/Bb9TggTDab6TgrEpJ/GXfDRuQEA5L8Hs
JavaScript	JavaScript Quiz 0	https://app.codesignal.com/public-test/qatBvrKDGfXERsQNd/ok4ErSfwzBSogy
JavaScript	Simple Js Algorithms	https://app.codesignal.com/public-test/oByHRKEZizPmDFpyG/EK3MtcpMYSZ3DW
JavaScript	jQuery Quiz	https://app.codesignal.com/public-test/TJGN5yKdWNPPrEC5S/yEx22AT8kGpkF2
Algorithms	Classes Challenge	https://app.codesignal.com/public-test/Bk2d9qmTdofayKF45/T2Yc6yd3HJcBmh
Algorithms	Host Allocation Challenge	https://app.codesignal.com/public-test/K4GSAyFejF6sXTHfT/3CAZE9eJ5w9ka6
Algorithms	String Implementation Challenge	https://app.codesignal.com/public-test/XQFLAqhi2msxhzpZp/wXjGdM8Y2ZG63A
Algorithms	Credit Card Provider	https://app.codesignal.com/public-test/gQFv3skW55vKi6MB7/woFnFui7x8BBj4

Getting Started

Follow the steps below to get started:

- Activate your Code Academy Account. Check your inbox and follow the instructions
- Check your Code Academy Account Dashboard to see your assigned course ([Comprehensive JavaScript](#)) and start learning immediately
- Read the AmaliTech Code Standards Document
- Complete your Training Assessments
- You can find additional training resources [here](#).

Note:

In all your engagement in the training, make sure you access all documents and resources with your *AmaliTech Email*. If you are in doubt, get clarity from your instructors.