

Programming: JavaScript

Materials & teaching in English



Learn JavaScript from the ground up and build the skills to work with complex web apps, data structures and algorithms.

JavaScript is one of the most widely used programming languages in the world. It runs in every browser, powers the logic behind modern web applications, and is a core skill for anyone working in front-end or back-end development. If you want to work professionally with code, JavaScript is one of the most practical places to start.

The course takes you through JavaScript from the beginning. You start with the fundamentals of programming: how to think logically, structure code, and work with the basic building blocks of any language. From there you move into JavaScript itself, covering variables, functions, arrays, loops and objects with hands-on labs throughout.

The intermediate part of the course goes deeper. You work with classes and object-oriented programming, learn how to handle asynchronous operations with promises and `async/await`, and make HTTP requests using the Fetch API. These are the patterns that come up constantly in real-world JavaScript development.

Testing is a dedicated part of the course. You learn how professional

developers write unit tests and follow test-driven development using Mocha, which is standard in the industry and something many employers look for.

The course then moves into data structures: nodes, linked lists, queues, stacks, hash maps, trees and graphs, all implemented in JavaScript. These are the structures that underpin how software organises and processes information efficiently.

The final part covers algorithms: sorting, searching, recursion and graph traversal, along with the ability to analyse how efficient your code actually is. Together, the data structures and algorithms content is what takes a developer from writing code that works to writing code that scales.

Each section concludes with an assessment. The course concludes with an exam. Included is 1 certification attempt for the JSA™ Certified Associate JavaScript Programmer certification - a documented proof of your skills that carries weight in a job application.

You will learn



Programming Fundamentals

- Understand how code works and think like a programmer
- Learn control flow, variables and data types from scratch
- Build a solid foundation before writing JavaScript



JavaScript Core

- Work with functions, scope, arrays and loops
- Use higher-order functions and iterators effectively
- Build and manipulate objects with getters and setters



Intermediate JavaScript

- Work with classes, modules and object-oriented programming
- Handle asynchronous code with promises and `async/await`
- Make HTTP requests using the Fetch API



Testing and Code Quality

- Understand the principles of test-driven development (TDD)
- Write unit tests with Mocha and the Node.js assert library
- Catch bugs early and build more reliable software



Data Structures in JavaScript

- Implement nodes, linked lists, queues, stacks and hash maps
- Work with trees, heaps and graphs in JavaScript
- Understand how data structures affect performance



Algorithms in JavaScript

- Implement bubble sort, merge sort and quicksort
- Work with recursion, binary search and graph traversal
- Analyse algorithmic complexity with asymptotic notation

The course is for you if you...

- ✓ You want to work as a developer and are ready to learn Java properly, from core syntax and object-oriented programming through to data structures, algorithms and advanced application development.
- ✓ You have some interest in or exposure to programming and want a structured, comprehensive path through Java that ends with skills and a certificate you can show to employers.

Course structure

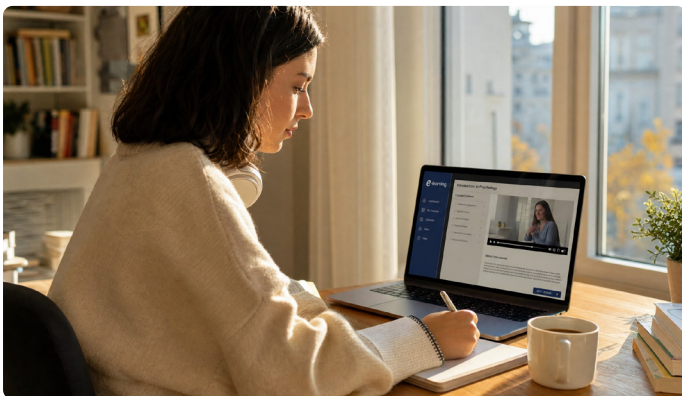
The course includes self-paced online sessions, Labs and a Final Exam assessment. You also get access to a library of e-books.

Certification

The course concludes with an exam. Included is 1 certification attempt for the JSA™ Certified Associate JavaScript Programmer certification. The attempt must be used within 1 month of completing the course.

Careercoach

You also can spar with Itucation's career coach regarding CV, application and job strategy. If you wish to take advantage of this offer, please send an email to kurser@itucation.dk



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