

Certified Javascript basic programmer

MODULE 1

Introduction to Javascript (JS)

What is Javascript: definition, features and real time applications.

Writing Javascript code

Javascript prerequisites

The famous “Hello world” program

Javascript variables, datatypes and operators

Practice questions

Module completion exercise

MODULE 2

Javascript Flow Control and Loops

Javascript If, else and else if

For Loop

While and do while Loop

Switch case

Break and continue

Practice questions

Module completion exercise

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MODULE 3

Javascript Fundamentals

Functions

Function Declaration and Parameters

Callback Functions

Arrow Functions

Practice questions

Strings

Creating a String

String methods

Searching a string

Substring

String comparisons

Practice questions

Arrays

Array Creation, Declaration and Accessing arrays

Iterating Array elements

Array as deque

Array methods

Practice questions

Date and Time

Creating Date and Time

Get and Set date methods

Date Conversions

Practice questions

JSON

JSON methods

Formatting JSON

Custom JSON

Parsing JSON data

Practice questions

Module completion exercise

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MODULE 4

Classes and Objects

Classes

Syntax

Properties and methods

Static properties and methods

Inheritance

Instance of

Practice questions

Objects

Syntax

This and new operator

Object conversion

Garbage collection

Optional chaining

Practice questions

Error Handling

Try and catch block

Custom errors

Practice questions

Module completion exercise

MODULE 5

Promises, async/await

Callbacks

Promise

Promise API

Promise chaining

Error handling with promises

Async/await

Practice questions

Module completion exercise



The goal of the education

The goal of the education is that the student, after completing the education, has acquired the knowledge required for qualified and independent work in the field.

Eligibility requirements

No special eligibility requirements

Assessment criteria

After completing the education, with a passed result on all assignments and tests, the student receives a certificate. The main teacher for the education is the one who examines the student.

Degree title

Certified Javascript basic programmer technician

Extent of education

The studies are conducted at any study pace and include about 4 weeks of full-time studies.