



# JavaScript

Duration 2 day(s) (INIT-JAVASCRIPT-02)

Learn and develop in JavaScript

## Description

JavaScript is the most commonly used programming language both in internet browsers or server side with Node.js. JavaScript course is for developers who have little or no knowledge of JavaScript to get started. The training is aimed at both web and backend developers. During these 2 days of training, you will discover the basics of language as well as asynchronous and functional programming.

## Goals

- Learn the basics of language (types, variables, functions, objects, ...)
- How to write scripts in JavaScript
- Know how to apply the principles of asynchronous and functional programming
- Know how to use external libraries

## Public

- FullStack developer
- Software developer
- UI/UX designer
- Web developer
- Website owner

## Prerequisites

- Know the basics of programming

## Structure

50% Theory, 50% Practice

## Program

# Data types and variables

- Instructions and syntax
- Types of data
- Coercion
- The variables
- The operators

# Functions

- Definition
- Functions are objects
- Management of parameters
- Arrow functions

# Objects

- Definition and creation
- Properties
- Constructors
- Prototype and inheritance
- Standard objects
- Classes

# Arrays

- Declaration
- Access to data
- Multidimensional arrays
- Methods of arrays

# Control structures

- if
- switch
- while
- for

# Advanced functions

- Functional programming
- Visibility of variables and functions
- The keyword this
- Closures
- Generator functions

# Asynchronous programming

- Promises
- Async / Await

# Error management

# Modules

## Essential Libraries

- Lodash
- Moment

## Memory management

## JSON