

Price: R8,400.00 excl. VAT
Duration: 3 days
Delivery: Virtual classroom or
on-site training

Introduction to JavaScript Programming

Description

JavaScript is one of the most widely used programming languages in the world. It is used to develop websites and web applications. It is also a great choice as your first programming language.

This course is for people who have little or no programming experience. You will learn the fundamental building blocks of programming, and how to read and write small programs in JavaScript. If you know HTML and CSS and want to expand your web development skills, this course will start your journey as a JavaScript programmer.

Objectives

After you have completed the Introduction to JavaScript Programming course, you will be able to:

- Add JavaScript to a web page.
- Understand and apply the rules of JavaScript syntax.
- Create and use JavaScript variables.
- Understand data types and why they are important.
- Use JavaScript operators and methods to work with data.
- Control the flow of a program with conditional and iterative statements.
- Write functions in JavaScript, pass data to a function and get data returned from it.

Intended Audience

This course is for people who have little or no programming experience. You should attend the Introduction to JavaScript Programming course if:

- You want to become a programmer or learn more about programming.
- You want to develop or maintain web applications.
- You know HTML and CSS, and you want to take your web development skills to the next level.

Prerequisites

Before you attend the Introduction to JavaScript Programming course:

- You must have attended our HTML and CSS course or already be comfortable with the basics of HTML and CSS.
- You should be familiar with the concepts of files and folders on your computer.
- You should be able to use a simple text editor.

Course Contents

Introduction

- Goals, expectations and mindset.
- The importance of terminology.

- Thinking like a programmer.
- Why we need a programming language.
- The role of compilers and interpreters.
- Why JavaScript is so important.

Getting started

- Editors, tools and browsers.
- Incorporating JavaScript in HTML pages.
- Using the browser console.
- Introduction to errors.

JavaScript syntax

- The concept of syntax.
- Character set and case sensitivity.
- Whitespace, statements and blocks.
- Identifiers and keywords.

Variables

- Creating and using JavaScript variables.
- Basic output via the browser or the console.
- Basic user input.

Data types and literals

- Why data types are important.
- Literals and data types.
- JavaScript variables and data types.
- The Number data type.
- The String data type and escape sequences.
- The Boolean data type.
- Type conversion.

Expressions and operators

- Mathematic operators and working with numbers.
- String operators and working with strings.
- Comparison operators.
- Assignment operators.
- Building complex expressions with logical operators.
- Operator precedence rules.

JavaScript control statements

- Conditional statements.
- Iterative statements.

- Nesting control statements.

JavaScript functions

- Calling a function.
- Creating a function.
- Passing values to a function.
- Returning values from a function.

Arrays in JavaScript

- The concept of a class, object and method.
- The Array object.

Introduction to the DOM.

- The concept of the document object model.
- Making dynamic changes to the web page.
- Introduction to working with forms.

*** The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*