

Price: R5,900.00 excl. VAT
Duration: 3 days
Code: JSWEB

JavaScript for Web Developers

Description

This course covers the JavaScript language and the document object model in depth. It also covers the principles of developing cross-browser compatible dynamic HTML. The course does not include server-side objects and development.

Objectives

Delegates who complete this course will be able to:

- Understand and use fundamental JavaScript concepts: variables, data types, iterative and conditional constructs, functions and return values.
- Understand and use JavaScript objects, including the Array, Date and String objects.
- Understand and use the Document Object Model.
- Create dynamic web pages.
- Understand the importance of cross-browser compatibility.

Intended Audience

Anyone who is responsible for the development or maintenance of web sites or web-based systems.

Prerequisites

Delegates must have previous experience in web development, and be competent in HTML (including forms) and CSS, or have attended our Client-side Web Development course. Please note that experience with only a WYSIWYG HTML editor will not suffice.

Course Contents

Introduction to Client-side Scripting • The concept of Dynamic HTML. • Client-side versus server-side scripts. • Advantages and disadvantages of scripting. • Scripting languages.

The Event Model • Concept of event-driven programming. • The event model in HTML 4.0. • Creating event handlers. • Embedding scripts in HTML pages.

JavaScript Fundamentals • Syntax and structure of JavaScript. • Statements and comments. • Identifiers and variables. • Data types and type conversion. • Expressions and operators. • Program flow: conditional and iterative statements. • User-defined functions.

JavaScript Objects • Objects, properties and methods. • The concept of intrinsic objects. • The Array object. • The String object. • The Date object. • The Math object. • Other objects: Number, Boolean, Function, RegExp. • Creating custom objects.

The Document Object Model • The nature of the Document Object Model. • Collections. • The DOM hierarchy. • The window object. • The document object. • The navigator object. • The history object. • The location object. • The form object and form elements. • Using JavaScript with forms. • Creating Cross-browser Scripts.