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

JavaScript for Web Developers

Description

The JavaScript for Web Developers 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 the JavaScript for Web Developers course will be able to:

- Understand and use fundamental avaScript 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 progressive JavaScript and cross-browser compatibility.

Intended Audience

The JavaScript course is suitable for developers who are responsible for the development or maintenance of web sites or web-based systems.

Prerequisites

Delegates who want to attend the JavaScript course must be competent in HTML (including forms) and CSS, or have attended our Web Development with HTML and CSS course. Please note that web development experience with only a WYSIWYG HTML editor will not be sufficient.

Course Contents

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

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.