

W443 - JavaScript Programming

Course Objectives

This objective of this course is to provide the necessary skills to enable the development of technical staff to learn the JavaScript programming language.

Students will use JavaScript within a browser environment to create online forms and create dynamic web pages manipulated through use of the Document Object Model.

Who Should Attend	Prerequisites	Duration
Web Page Developers Web Masters Designers	Appreciation of another structured programming language e.g. PL/SQL HTML fundamentals	2 Days

Course Contents

The JavaScript Language

Introduction
Proper use of JavaScript in a modern browser environment.
JavaScript syntax
Datatypes
Variables
JavaScript operators
If-then-else statements

Strings & JavaScript

String functions & data manipulation

JavaScript Functions

The Document Object Model

Object oriented programming
The Window Object as an example
Objects and methods explained

JavaScript Objects

The Math object
The Data object

Controlling Windows

Opening/closing windows
Windows features

Controlling Frames

Frames and the Document Object Model, Using JavaScript to control frames.

Control Structures

Looping structures
Functions
While loops
For loops

Arrays

Arrays and the document object model.

Timing your JavaScript

Using setTimeout

Event Handlers

Mouse Events
Keyboard Events
Document Events

Images & JavaScript

Simple & complex rollovers

Forms & JavaScript

Form components
Forms and the DOM
Using JavaScript to validate form fields

AJAX/AHAH Overview

Asynchronous techniques with HTML and XML.