

# Developing with JavaScript Technologies



This is an intensive two-day course designed to provide attendees with sufficient knowledge to incorporate JavaScript into their toolbox of useful technologies. The course is aimed at developers who want to apply JavaScript to their browser-based projects, and also for those who need to know how the language and its environment is developing to be applicable in a more widespread context.

## *Who Should Attend*

Basic programming experience using a modern programming language such as C, C++, Visual Basic, or Java is required. A rudimentary understanding of object oriented concepts is also useful.

Participants should also be familiar with, and be able to construct basic web pages using 'raw' HTML, rather than via higher-level tools such as Macromedia Dreamweaver or Microsoft FrontPage.

## *Objectives*

This course will provide participants with the ability to:

1. Understand the history, purpose and utility of JavaScript as a web technology
2. Become familiar with the features of the JavaScript language
3. Know how when and where to use JavaScript most effectively
4. Form a perspective on industry support and future issues related to the development of JavaScript
5. Develop more capable web-based applications using this inexpensive technology option
6. Use JavaScript outside of its traditional browser-based confines

*Please note:* this course is not intended to be a "JavaScript How-To" and does not focus purely on using JavaScript as a technology integrated into a web browser.

## *Topics*

The following key topics will be covered over the two day period:

1. Introduction to JavaScript (including an overview of concepts, industry standards, the purpose of the language, comparisons with other similar technologies, multi-tiered and thin client applications, etc.)

2. JavaScript and the various browser environments (including the browser object/instance model, event handling, etc.)
3. JavaScript techniques (including form validation, graphics, localisation, security, etc.)
4. Integrating JavaScript with other technologies such as Java, various W3C recommendations, and the Windows Scripting Host
5. Industry support (including browser support, development tools and products, versioning, etc.)

The course includes a number of practical exercises and case studies designed to highlight the features and application of JavaScript in a variety of situations.