

## HTML/XHTML Development

### A two Day Training Course

#### Course Aims:

This is an in depth, introductory course for IT Professionals (developers, analysts or managers) either working in, or exposed to, the browser development environment.

Presented as a mix of lectures and practical work, the course is particularly relevant to client or server-side developers who need to display information dynamically in the browser.

The course focuses on the use of **HTML/XHTML** as the underlying foundation upon which all other technologies sit and shows how to successfully integrate these technologies within the web page (internet or intranet).

Emphasis is placed on:

- The use of forms for sending data to the server.
- The use of tables for receiving data from the server.
- Including client/server scripts in HTML/XHTML pages.
- The role of Cascading Style Sheets.
- The importance of <div> and <span>.
- The HTML/XHTML/DOM relationship.
- The HTML/XHTML/XML relationship.
- Real world HTML and XHTML issues.

While attention is given to the use of **JavaScript** (JScript), **VBScript**, **Cascading Style Sheets** and the **Document Object Model**, this course is not intended as a comprehensive introduction to these topics. It is intended to demonstrate how they integrate with HTML/XHTML.

#### Course Outline:

##### The Structure of an HTML Page

- Tags, Elements, Containers, Attributes, Syntax
- Use of White Space
- Pairing and Nesting
- Working with the Header and the Body Sections
- Separation of Editing and Viewing
- Block level and Inline Elements
- Working with Special Characters
- How Comments are Used to Include Non HTML Elements
- (eg Server-Side Includes)

##### Working with Hyperlinks

- Creating Text Hyperlinks - the Anchor Element
- Relative and Absolute Addressing
- Linking to Named Anchors
- Attaching Hyperlinks to Images
- Including Alternative Text
- Creating Image Maps

##### Integrating Scripts

- Using the <script> Element
- Specifying the Script Language
- Using External Scripts
- Incorporating Server Side (ASP) Scripts
- Running Scripts from Hyperlinks
- Using Event Handlers to Run Scripts
- The DOM Explained
- Scripts and the DOM - Populating Elements

##### Using Tables

- The Importance of Tables
- Creating Tables - Elements and Attributes
- Page Layout with Tables
- Working with Relative Table Dimensions
- How Scripts Create Dynamic Tables

### **The Basics of CSS**

- How Content and Format is Separated
- Basic CSS Syntax
- Some Key Properties
- Inline, Embedded and External Styles
- Using the <style> Element
- The Use of Element, Class and ID Selectors
- Linking External Style Sheets
- Using <div> and <span> to create custom Styles
- How CSS is used Dynamically

### **Using Forms**

- The <form> Element
- How the Action Attribute is Used
- The Form and HTTP
- The HTTP Header and Body
- The Method Attribute - "get" and "post"

- Key Form Elements (Text Boxes etc)
- Using the Submit Button to Send Data
- Client Form Validation Explained
- Scripts and the onSubmit Event Handler

### **HTML, XML, XHTML Relationships**

- The Importance of XML Explained
- About Well Formedness
- DTDs, Schema and Validity
- About Namespaces
- XHTML = HTML + XML
- XHTML Development Implications
- W3C DTDs and Namespaces
- How to Develop XHTML Pages

### **Target Audience:**

There are no formal prerequisites for participation in the course. However, it is specifically aimed at IT professionals who need to dynamically present data from an environment with which they are familiar.

### **Assumed Knowledge:**

HTML or XML experience is assumed (see: [HTML / XHTML Development](#) and [XML Development: A Foundation Course](#))