

## Essential Web Maintenance – 5 days



### Course Objectives

Web site maintenance involves a basic understanding of many technologies. Some of these will need to be understood to a level that allows the site to be maintained in an efficient manner without the risk of damage to the site as a whole. This course introduces you to most of the main technologies around today. If you are looking to maintain a web site, then this is your starting point.

### Prerequisites

To fully benefit from this course, delegates are expected to have experience of “surfing” on the Internet and knowledge of Windows. Some programming experience would be useful but is not essential.

### Exercises

This course is instructor led, involving the utilisation of examples and exercises in a workshop environment.

### Planning a Web Site

- Web site types
- Planning, setting up & constructing a Web site
- The construction phase
- Navigation and multimedia
- Planning for the future

### Principals of Construction

- Common errors
- Brand names
- Legal aspects

### Introduction to Technologies

- Do I really need to know this?
- Introduction to Web Technologies
- The big picture: how these technologies interact

### HTML

- HTML document structure
- HTML tags: headings, paragraphs, lists, tables, graphics and hyperlinks
- Creating HTML without a web authoring tool

### Cascading Style Sheets

- Cascading what?
- What style sheets do
- Under the hood: writing a style sheet from scratch
- Techniques for formatting and positioning

### Client Side Programming

- JavaScript
- VBScript
- Java Applets
- ActiveX Controls
- Flash

### Introduction to JavaScript

- Alternative products for Web design
- Differences between Java Script and other Web design products
- Tagging Java Script code into HTML pages

### JavaScript Variables

- Variable types used in Java Script
- Defining variables
- The difference between literals and variables
- Using of object properties

### JavaScript Operators and Expressions

- Operators of Java Script
- Assignment operators in Java Script
- Comparison operators of Java Script
- Logical operators of Java Script
- Concatenating strings



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### JavaScript Statements

- JavaScript statements
- Comments to code
- If... else statements While loops
- For loops
- Break and continue statements
- FOR...IN loops
- With code blocks

### JavaScript Functions

- The benefits of functions
- Defining a function
- Passing parameters to functions
- Returning results from functions
- Calling a function

### Server Side Scripting

- Perl
- CGI
- JSP
- ASP
- How do you write them?
- How is a database used with Server Side

### An ASP Overview

- Request and Response Architecture
- ASP Scripting Languages
- Objects and Components

### VBScript

- Syntax
- Variables/Data types
- Expressions
- Statements
- Procedures

### The Request Object

- Overview
- ServerVariables Collection
- QueryString Collection
- Form Collection

### The Response Object

- Overview
- The Write and Redirect methods
- Buffering Output

### Managing State

- Cookies
- Session Variables
- Application Variables

### XML

- What is XML?
- Origins of XML
- Relationship with SGML, HTML and XHTML
- Structuring Data with XML
- Creating well-formed documents
- Namespaces
- Document Type Definitions
- Displaying XML with CSS

### XSL

- What is XSL?
- Applying XSL Style Sheets
- Structure of XSL Style Sheets
- XSL Namespaces
- Templates in XSL
- XPath
- Conditional Statements

### .Net

- The .NET platform
- .NET framework
- .NET products
- .NET languages (VB.NET, C#, C++, JScript.NET ,Perl.NET)
- How Does VB.Net Differ from VB6
- Class Library
- ASP.NET
- Comparing ASP to ASP.NET
- Building .NET applications
- Windows Forms
- ADO.NET
- Interoperating with Win32
- Interoperating with COM
- .NET Security

### Web Services

- Web Services, What Are They
- Simple Object Access Protocol (SOAP)
- Web Services Description Language
- Discovery of Web Services