

## Web Site Development with HTML/JavaScript

Duration: 30 Hours | Price: INR 5000 **SAVE NOW! INR 4000 Until December 1, 2011**

### Students Will Learn

- XHTML Fundamentals
- Developing and Using Cascading Style Sheets (CSS)
- Building Forms and Tables
- DOM (Document Object Model)
- JavaScript Syntax
- Form Validation
- Scripting CSS
- Event Handling

**Course Description:** This hands on Web programming class provides a thorough introduction to implementing a full-featured Web site on the Internet or corporate Intranet, including implementation of dynamic content using JavaScript and related tools. Starting with thorough coverage of XHTML and Cascading Style Sheets (CSS), the course progresses to the implementation of dynamic client-side content using JavaScript. Hands-on exercises are performed throughout each day to demonstrate key concepts.

**Course Prerequisites:** Basic personal computer skills and basic Internet knowledge.

**Follow-up Courses:** PHP Programming, ASP Programming, XML Programming.

### Web Site Development with HTML/JavaScript Course Overview

#### XHTML Fundamentals

- Understanding <DOCTYPE>
- Creating Valid XHTML Documents
- Using Block and Text-Level Tags
- XHTML Tag Attributes
- class, id, style
- Creating Effective <title> tags

#### Constructing Forms

- <form> Tags and Attributes
- Single-line and Multi-line Text Fields
- Radio Buttons and Checkboxes
- Dropdown and Selection Lists
- Submit and Reset Buttons
- Using CSS to Style a Form

#### Creating and Managing

- Overview of Cascading Style Sheets (CSS)
- Creating CSS Rules
- Defining Type Selectors
- Defining Class and ID Selectors
- Pseudo-Classes and Elements
- Linking to External Style Sheets
- Embedded Style Sheets

#### Tables

- Adding Tables to a Page
- Working with <table>, <tr>, <td>, <th> and <caption> Elements
- Table Attributes
- Creating Nested Tables
- Using CSS to Style a Table

**Lists**

- Types of Lists
- Ordered Lists
- Unordered Lists
- Definition Lists
- Creating List Items Using the <li> Tag
- Creating Nested Lists
- Using CSS to Style a List

**Introduction to Client-Side JavaScript**

- Embedding JavaScript in an XHTML Document
- Evolution of the JavaScript Language
- JavaScript Versions and Browser Support

**DOM/CSS Scripting**

- Introduction to the Document Object Model (DOM)
- Using the getElementById method
- Modifying Page Content with the DOM
- Manipulating CSS using JavaScript
- Programmatic Access to CSS

**Implementing Control Constructs**

- Introduction to Conditional and Looping Constructs
- The if else Statements
- The do while Statements
- The for in Statements
- The switch Statement

**Fundamental JavaScript Directives**

- Inline JavaScript
- Linking Web Pages to External JavaScript Files
- JavaScript Using <script> Tags and Attributes
- Deferred scripts
- <noscript> Tags

**Implementing Arrays**

- Using Arrays in JavaScript
- Predefined JavaScript Object Arrays
- Creating Arrays
- Reading and Writing to an Array
- Common Array Properties and Methods

**Using Graphics and Links**

- Displaying Images on a Web Page
- Adding hyperlinks to a Page
- Creating Email Links
- Creating Anchors on a Page
- Working with Client-Side Image Maps

**Statements and Operators**

- Variable Declarations
- Assignment Operators and Statements
- Arithmetic Operators
- Logical Operators
- Comparison Operators
- String Operators
- Conditional Operators
- Operator Precedence

**Implementing Functions**

- Defining Functions
- Invoking Functions
- Named and Anonymous Functions
- Passing Arguments
- Local vs. Global Variables
- Using the return Statement

**JavaScript Objects**

- The JavaScript Browser Object Model
- JavaScript Object Properties
- Object Methods
- The new Keyword
- The this Keyword
- Creating New Object Instances Using Constructor Functions
- String, Date and Array Objects

**Common Applications**

- Form Validation and Testing
- Working with Regular Expressions
- User Interaction
- Local Form Processing
- Object Detection
- Creating New Windows
- Adding Content to a Window
- Browser Awareness Using the navigator Object
- Interactive Graphics

**Cookies**

- Overview of JavaScript Cookies
- Session and Persistent Cookies
- Using Cookies on a Web Page
- Common Uses of JavaScript Cookies

**Event Handling**

- The W3C and Internet Explorer Event Models
- The Event Object
- Registering JavaScript Events
- Inline Event Handlers
- Processing Keyboard and Mouse Events

**Student Testimonials**

"This was a great workshop. SPIRO was very accommodating with my travel necessities. Very impressive. I am sincerely looking forward to my next Course (PHP) in a couple of weeks."

– **Malaravan**

"Instructor was highly knowledgeable. Handouts were excellent! Course exceeded expectations."

– **Mahesh bhoopathi ,Roy Group**

**# 78 ,3rd Floor,Usman Road,T.Nagar,Chennai-17.**

**(above Hotel Sarvanha Bhavan)**

**Mobile : 9791 044 044,9176 644 044 Email:course@stupros.com**