SPIRO - PROFESSINAL STUDENT PROCESS ACADEMY

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+91-9791 044 044

JavaScript Programming

Duration: 20 Hours | Price: INR 3000 **SAVE NOW! INR 2000 Until December 1, 2011**

Students Will Learn

- JavaScript Language and Syntax
- JavaScript Directives
- Scripting CSS
- Creating and Using Functions
- JavaScript Objects
- Arrays
- Cookies
- Event Handling

Course Description: This hands on JavaScript training course provides the knowledge necessary to design and develop dynamic Web pages using JavaScript. It introduces students to JavaScript and how the language can be used to turn static XHTML pages into dynamic, interactive Web pages. Students will learn the syntax of the JavaScript language and how client-side scripts interact with server-side programs. Additional topics include the Document Object Model, form validation, cookies, how to create functions, and how to create your own script files. Hands-on exercises are performed throughout each day to demonstrate key concepts. At the end of this class, participants will have the knowledge necessary to utilize the power of JavaScript to provide dynamic content on their Web sites.

Course Prerequisites: Basic computer skills and knowledge of HTML fundamentals including use of Cascading Style Sheets. Students who are not familiar with HTML should register for the course Web Site Development with HTML/JavaScript.

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JavaScript Programming Course Overview

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

Introduction to Client-Side JavaScript

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

Implementing Functions

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

Introduction to Client-Side JavaScript

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

Fundamental JavaScript Directives

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

Cookies

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

Statements and Operators

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

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

Implementing Arrays

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

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

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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

"The instructor was great and the rule of three helped me understand the material. You can't beat: Talk about it. See it. Do it."
— E.Kavya

"Very good course – covered many interesting topics. I learned a really tremendous amount for only 20 Hours. This will greatly help me in my current job."
— C.Hasith., Net QOS

"This has been my best technology-training course. The subject matter directly relates to what I'm doing at work. The fact that the instructor is so knowledgeable was refreshing. He took the time to answer questions and patiently explained also giving examples. I will be referring others to this class."
— A.Chinaadurai. Sun Terra tech

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(above Hotel Sarvanha Bhavan)

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