Workshop Details

|  |  |
| --- | --- |
| Duration: | 4 Days - 32 hrs. |
| Description: | This course is designed by software professionals in a way that will will give you the basics for coding in JavaScript. First, you'll discover the types of applications that can be built with JavaScript, and the platforms they’ll run on. Next, you’ll explore the basics of the language, with plenty of coding exercises. Lastly, you’ll put your JavaScript knowledge to work and modify a modern, responsive web application. When you’re finished with this course, you’ll have the skills and knowledge in JavaScript to create programs, create web applications, and modify web pages. |

Course Content

|  |  |
| --- | --- |
| **Day 1** | * Course Overview * Introduction to JavaScript   + Introduction   + Installing Development Software   + Hello World Project from GitHub   + Our Sample Website * JavaScript Beginnings   + Introduction   + Adding JavaScript Code to a Web Page   + Working with JavaScript Files   + Formatting Code   + Detecting and Fixing Errors   + Case Sensitivity   + Commenting Code   + Summary * Variables and Constants   + Introduction   + What Is a Variable?   + Declaring Variables   + Using let to Declare Variables   + Naming Variables   + Common Errors Using Variables   + Changing Variable Values   + Constants   + The var Keyword   + Summary * Types and Operators   + Introduction   + Numbers   + Operator Precedence   + Number Precision   + Negative Numbers   + Strings   + Manipulating Strings   + Converting Strings and Numbers   + Boolean Variables   + null and undefined   + Objects and Symbols   + Summary |
| **Day 2** | * Program Flow   + Introduction   + Conditionals Using if()   + Truthy and Falsy   + if ... else   + Comparing === and ==   + The Ternary Operator   + Block Scope Using let   + Looping with for()   + Looping with while()   + Looping with do ... while()   + Summary * Functions   + Introduction   + Function Basics   + Function Expressions   + Passing Information to Functions   + Function Return Values   + Function Scope   + Using Functions to Modify Web Pages   + Summary |
| **Day 3** | * Objects and the DOM   + Introduction   + Object Properties   + Object Methods   + Passing Objects to Functions   + Standard Built-in Objects   + The Document Object Model (DOM)   + Styling DOM Elements   + Detecting Button Clicks   + Showing and Hiding DOM Elements   + Summary * Arrays   + Introduction   + Creating and Initializing Arrays   + Accessing Array Items   + Manipulating Arrays   + slice() and splice()   + Array Searching and Looping   + Arrays in the DOM   + Summary * Scope and Hoisting   + Introduction   + Global Scope   + Function Scope   + var and Hoisting   + Undeclared Variables and Strict Mode   + Summary      * Exception Handling   + Try, Catch, and Finally Blocks   + Throw a Custom Error Object   + Detect the Error Type   + Error Object   + Properties of Error Object   + Methods of Error Object   + Summary |
| **Day 4** | * Window and Frame Objects   + Top-level Objects   + Window Object   + Location Object   + Document Object   + The Navigator Object   + History Object   + Screen Object   + Working with Frames * JavaScript Event Handling   + Objects and Events   + Creating an Event handler   + Changing Event handlers   + Managing JavaScript Events   + The onLoad and onUnload Events   + Event Simulation   + The Event object   + Event capturing   + Turning off Event capturing   + Event bubbling   + Preventing Event bubbling * Forms   + The Form Object   + Fieldset and Legend Element Objects   + Label Element Object   + Form Elements   + Form Attributes and Methods * Introduction to HTML   + Understanding HTML   + HTML Documents   + Demo: An HTML Document   + The Head Element   + Demo: Working with the Head   + The Body Element   + Demo: Working with the Body   + Summary |