Programming in HTML5 with JavaScript and CSS3 Specialist

The Programming in HTML5 with JavaScript and CSS3 Specialist (70-480) course readies one for the Microsoft 70-480 exam and will increase employability prospects for anyone looking to get into a web design and web development career.

ABOUT THIS COURSE

The course covers document structures and objects, program flow, accessing and securing data, and the use of Cascading Style Sheets in applications. This exam (or the 70-483 exam for Programming in C#) plus the 70-486 exam (for developing ASP. NET applications) earns one an MCSA for App Development.

COURSE OUTLINE

Session 1

Section A - Introduction: Course Opener, How to Study for This Exam

Section B - Create the Document Structure: Section Tag, Article Tag, Nav Tag, Header Tag, Footer Tag, Aside Tag, Layout Containers.

Section C - UI Control Interaction: Add HTML Programmatically, Modify HTML Programmatically, Add a Video, Add Audio, Draw a Canvas, Add SVG Shapes.

Section D - Programmatically Style HTML Elements: Move an HTML Element, Transition an Element, Show and Hide Elements.

Section E - Implement HTML5 APIs: Local Storage API, Session Storage API, AppCache API, Geolocation API.

Section F - Object and Variable Scope: The Lifetime of Variables, Keep the Global Namespace Object-Free, The This Keyword, Scope Variables Locally and Globally.

Section G - Implement Objects and Methods: Implement Native Objects, Create Custom Objects and Properties, Inherit from an Object, Native Methods and Custom Methods, Domain 1 Exam Tips.

Session 2

Section A - Implement Program Flow: Iterate Across Collections and Arrays, If-Then Statements, Switch Statements, Ternary Operators, Evaluate Expressions.

Section B - Raise and Handle an Event: Common DOM-Exposed Events, Bubbled Events, Anonymous Functions.

Section C - Implement Exception Handling: Set and Respond to Error Codes, Throw an Exception, Check for Nulls, Try-Catch-Finally Blocks.

Section D - Implement Callbacks: Receive HTML5 WebSocket API Messages, AJAX Calls with jQuery, Wire Up Events, Callbacks with Anonymous Functions, Handle the This Pointer.

Section E - Web Worker Processes: Start and Stop a Web Worker, Pass Data to a Web Worker, Web Worker Timeouts and Intervals, Web Worker Event Listeners, Web Worker Limitations, Domain 2 Exam Tips.

Session 3

Section A - Validate User Inputs with HTML5: Controls Based on Requirements, Input Types and Content Attributes.

Section B - Validate User Input with JavaScript: Evaluate Regular Expressions, Validation Through Built-In Functions, Prevent Code Injection.

Section C - Consume Data: Consume JSON Data, Consume XML Data, Use Web Services to Retrieve Data, Use an XMLHttpRequest.

Section D - Serialize: Deserialize, Transmit Data, Binary Data, Text Data with JSON, Text Data with XML, Implement the jQuery Serialize Method, Form.Submit, Parse Data, Use XMLHttpRequest to Send Data, Use URI/Form Encoding to Sanitize Input, Domain 3 Exam Tips.

Session 4

Section A - Style HTML Text Properties: Apply Color, Bold, and Italics, Apply Styles to Text Font, Text Alignment, Text Spacing, Text Indentation, Text Hyphenation Styles, Text Drop Shadow Styles.

Section B - Style HTML Box Properties: Size and Borders, Rounded Border Corners, Outlines, Padding and Margins, Background Images, Transparency and Opacity, Gradients, Shadows, Clipping, Static and Relative Positions, Absolute and Fixed Positions.

Section C - Flexible Content Layouts: Flexible Box Model Layouts, Multi-Column Layouts, Position Floating and Exclusions, Grid Alignment Layouts, Groups, Nests, and Regions.

Section D - Animated and Adaptive UIs: CSS Transitions for Animation, 2-D and 3-D Transformations, Adjust UI Based on Media Queries, Hide or Disable Controls.

Section E - Use CSS Selectors and jQuery: Choose Correct Selectors, Element, Style, and Attribute Selectors, Pseudo-Elements and Pseudo-Classes, Selectors and jQuery.

Section F - CSS File Structure Using Selectors: Reference Elements, Implement Inheritance, Override Inheritance, Use Pseudo-Elements and Pseudo-Classes, Domain 4 Exam Tips, Final Exam Tips.

Section G - Conclusion: Final Thoughts.

PRE-REQUISITES

There are no specific pre-requisites required before starting this course.

BENEFITS

- Learn from an expert the 70-480 exam objectives
- Pre/Post test questions and interactive labs
- Access your courseware anytime, anywhere

COURSE DURATION - AROUND 50 HOURS

(Actual course duration will vary from individual to individual, based on prior skills and application).

To find out more about this or any of our courses, speak to one of our course advisors.

The best way to predict the future **is to create it.**