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Learning Style: Virtual Classroom

Technology:

Difficulty: Intermediate

Course Duration: 3 Days

Introduction to HTML5, CSS3 and JavaScript (TT4003)



About this course:

Introduction to HTML5; CSS3 and JavaScript is an in-depth HTML5, CSS3 and JavaScript training course geared for developers who need to understand what the latest in web technologies and responsive design practices that are central to targeting the entire spectrum of user platforms and browsers. This comprehensive course provides a balanced mixture of theory and practical labs designed to take students through HTML5, CSS3 and JavaScript. Students who attend this course will leave this course armed with the new skills to design, implement, and deploy robust, flexible, and safe web applications.

The average salary of an HTML5, JavaScript and CSS3 programmer is **$76,200** per

year.

Course objective:

This course provides indoctrination in the practical use of the umbrella of technologies that are on the leading edge of web development.

Working within in a dynamic, hands-on learning environment, guided by our expert team, attendees will learn:

HTML5:

- How to effectively meet requirements using the full range of HTML5 semantic and structural elements
- To work with technologies such as web storage, application caching, and cross-domain messaging to improve performance and the user experience

CSS:

- What features CSS3 supports and how they can be effectively used with HTML5 and other technologies
- To adapt to varying degrees of browser support for HTML5 and CSS3

JavaScript:

- What JavaScript is, how it relates to other programming languages, and how to script your web pages with it
- To traverse and manipulate the DOM and handle events in ways that work in all browsers
- To work with closures and prototypes and other exotic features of JavaScript

Debugging:

- What is needed to effectively debug these web technologies
- How to use both browser-based and proxy-based debuggers and tools

Audience:

- This is an **intermediate** level web development course, designed for experienced developers who need to extend their knowledge of web design and development or need to reinforce sound HTML and CSS coding practices

Prerequisite:

- Attendees should have previous experience or working knowledge of developing software applications, as well as basic HTML and CSS. Real world programming experience is a must.

Course Outline:

Module 1: HTML

Lesson: HTML

- Define HTML and review its history
- Look at XHTML and its relationship to HTML
- Identify HTML limitations and improvements
- Exercise: Working with HTML

Lesson: HTML5

- HTML5 Overview
- HTML5 Semantic Structure
- HTML5 Forms
- HTML5 Media Delivery
- Exercise: Writing a Valid HTML5 Document
- Exercise: Writing HTML5 Forms

Module 2: CSS

Lesson: CSS

- Learn the basics of CSS
- Meaning of cascading in CSS
- Declaring CSS within your HTML page
- Creating styles in an external CSS file
- Control how to display and position HTML elements
- Overriding standard tag behavior
- Adding new classes
- Using custom classes in your page
- Exercise: Working with CSS

Lesson: CSS3 Overview

- What is new in CSS3
- The Advantages of CSS3
- Browser Support for CSS3
- Exercise: Working with CSS3

Lesson: CSS3 Advanced Selectors

- Selecting Using Attributes
- Selecting Using DOM Structure
- Complex Selecting using Pseudo-Classes
- Selecting Using UI Components and State
- Exercise: Using Attribute Selectors

Lesson: CSS3 Visual Effects

- Font Options, Opacity, and Color
- Distributing Content Across Columns
- Working with Borders and Boxes
- Working with Vendor Prefixes
- Functional Techniques
- Exercise: Using Improved CSS3 Techniques
- Exercise: Applying CSS3 Functional Techniques

Module 3: JavaScript

Lesson: JavaScript Basics

- JavaScript Defined
- Variables and Operators
- Flow Control and Conditionals
- Exercise: JavaScript Basics

Lesson: Debugging Tools

- Using the strict mode and setting breakpoints
- Browser debugging tools
- Monitoring resource usage and performance
- Emulating devices Exceptions in JavaScript
- Exercise: JavaScript Debugging

Lesson: JavaScript Functions

- Functions in JavaScript
- Invoking Functions
- Function Constructor
- Function Scope and Closures

Lesson: JavaScript Arrays, Math and Date

- JavaScript Literals
- JavaScript Arrays
- Working with Numbers and Dates
- Exercise: JavaScript Built-in Objects

Lesson: JavaScript Event Handling and the DOM

- Events and Event Handling
- HTML Document Object Model
- Accessing the DOM
- Dynamically Working with the DOM
- DOM Challenges
- Exercise: Using Events and the DOM

Lesson: Object-Oriented JavaScript

- JavaScript “Objects” and “Classes”
- Constructors and Prototypes
- Prototypes
- Extending Classes with Prototype
- Reusable, Flexible Classes
- Exercise: Working with Classes

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