Introduction to HTML5 / CSS3 and Responsive Design - TT4002

Quickly gain solid HTML5 and CSS3 skills for creating modern, responsive, and user-friendly web designs

Duration: 2 Days
Skill Level: Introductory
Available Format: Instructor-Led Online; Instructor-Led, Onsite In Person ; Blended; On Public Schedule

Introduction to HTML5/CSS3 and Responsive Design is a two-day course crafted to enhance your web development skills. In this course, you'll immerse yourself in the world of HTML5, gaining proficiency in creating structured, semantic web content.

What You'll Learn

Overview

Introduction to HTML5/CSS3 and Responsive Design is a two-day course crafted to enhance your web development skills. In this course, you'll immerse yourself in the world of HTML5, gaining proficiency in creating structured, semantic web content. This knowledge is essential for improving website accessibility and search engine rankings. Alongside HTML5, you'll delve into the artistic world of CSS3, learning to design visually stunning and responsive websites. These skills are vital for building sites that not only captivate the eye but also function seamlessly across a variety of devices, ensuring an optimal user experience.

The course is structured to provide plenty of hands-on practice, enabling you to apply your newly acquired skills in real-time. You'll engage in interactive labs, where you'll harness HTML5's robust features and CSS3's versatile styling techniques. This approach is pivotal in equipping you with the practical know-how to overcome typical web design challenges, empowering you to craft websites that are both aesthetically pleasing and highly functional.

You'll also explore the interplay between HTML5 and CSS3, understanding how to use CSS3's advanced features in conjunction with HTML5. This includes adapting to varying degrees of browser support and employing Responsive Web Design techniques to ensure your websites adapt fluidly to different screen sizes and delivery channels. You'll also delve into effective debugging methods, utilizing both browser-based and proxy-based tools to refine and enhance your web development projects.

By the end of this course, you'll emerge with a comprehensive understanding of HTML5 and CSS3, ready to create engaging, responsive web experiences. You'll be well-equipped with the skills to not only make visually appealing websites but also to ensure they perform excellently across different browsers and devices, making a significant impact in the digital world.

NOTE: If you wish to learn or review JavaScript basics as well, the TT4003 Introduction to HTML5/CSS3 and JavaScript 3 day course is a good alternative.

Objectives

This course combines engaging instructor-led presentations and useful demonstrations with valuable hands-on labs and engaging group activities. Working in a hands-on learning environment guided by our expert instructor **you'll explore:**

- HTML5 Semantic Web Development: Learn to create accessible, SEO-friendly web content with HTML5's semantic and structural elements.
- Next-Level CSS3 Design: Develop skills in advanced CSS3 styling to craft visually compelling and responsive websites.
- Responsive Web Design Implementation: Master techniques to build websites that adjust fluidly across different screens and devices.
- Web Application Debugging: Acquire the ability to effectively identify and fix issues using browser-based and proxy-based debugging tools.
- Web Performance Optimization: Understand and apply HTML5 techniques, like web storage and application caching, to enhance web performance and user experience.

Audience

This Introductory-level course is targeted for aspiring web developers who have software development experience or background. **The course can also be adjusted for non-developers upon request.**

Pre-Requisites

- Basic Computer Literacy and Text Editing: Comfort with using computers, basic software applications, and text editors for coding.
- Fundamentals of Web Development: General awareness of web development concepts and processes, including how web pages are structured and served. Basic understanding of HTML including elements, tags, and basic page structure and Introductory knowledge of CSS including styling text and layout basics would be helpful

TT4214   Hands-On UX Workshop: Designing Web and App Experiences That Work

Agenda

1. HTML Quick Refresh

- Define HTML
- Look at XHTML and its relationship to HTML
- Identify HTML limitations and improvements
- Hands-on Lab

2. Getting Started with HTML5

- HTML5: Status and Support
- Semantic Structure and Tags
- Handling Complex Media Options
- Lab: Writing a Valid HTML5 Document

3. HTML5 Forms

- Working with Legacy Browsers
- Forms, Input Types, and Data Qualification
- Hands-on Lab

4. CSS Basics

- 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

- Hands-on Lab

5. Getting started with CSS3
- What is new in CSS3
- The Advantages of CSS3
- Layout of elements using the display property
- CSS Flexbox
- Hands-on Lab

6. CSS3 Advanced Selectors
- Selecting Using Attributes
- Selecting Using DOM Structure
- Complex Selecting using Pseudo-Classes
- Selecting Using UI Components and State
- Hands-on Lab

7. CSS3 Visual Effects
- Font Options, Opacity, and Color
- Distributing Content Across Columns
- Working with Borders and Boxes
- Working with Vendor Prefixes
- Functional Techniques
- Hands-on Lab

8. Responsive Web Design
- Adapting to Varying Screen Sizes
- Scaling Page and Text Content
- Scaling and Adapting for Media
- Options for Adjusting Media
- Hands-on Lab

9. HTML5 JavaScript API
- Cross-Domain Messaging
- Working with Web Storage
- Geolocation: What, Why, and How
- Hands-on Lab

Related Courses

TT4002	Introduction to HTML5 / CSS3 and Responsive Design
TT4003	Introduction to HTML5, CSS3 and JavaScript
TT4110	Introduction to JavaScript / Modern JavaScript Essentials
TT4165	Introduction to Angular 18 Essentials
TT4168	Mastering Angular 18 Boot Camp
TT4190	Getting Started with React Essentials
TT4195	Mastering React Boot Camp

For More Information

Please contact us or call 844-475-4559 toll free for more information about our training services (instructor-led, self-paced or blended), coaching and mentoring services, public course enrollment or questions, partner programs, courseware licensing options and more.