
Web Developer SkillJourney

Introduction to HTML5 / CSS3 and Responsive Design (TT4002)

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

Course Snapshot

- **Course: Introduction to HTML5 / CSS3 and Responsive Design (TT4002)**
- **Duration:** 2 days
- **Audience & Skill-Level:** 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.
- **Format / Hands-on:** This course combines engaging instructor-led presentations and practical demonstrations with hands-on programming exercises, challenge labs, use case exploration and engaging group activities. Student machines are required.
- **Flexible Delivery Options:** This course can be delivered for your team or organization online-live (virtual), onsite in-person, self-paced or across our immersive blended learning experience platform (LXP).
- **Public Schedule:** This course is currently available on our Public Open Enrollment Schedule.
- **Customizable:** We're flexible! This course agenda, topics, labs, hours and delivery modalities can be adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

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.

Learning 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.

Related Courses

The following is a small subset of related courses. We offer many additional courses and topics on modern web, mobile and full stack development.

- TT4002 Introduction to HTML5 / CSS3 - 2 days
- TT4003 Introduction to HTML5, CSS3 & JavaScript - 3 days
- TT4110 Introduction to Modern JavaScript – 3 days
- TT4165 Introduction to Angular Essentials - 3-day subset of this course
- TT4168 Mastering Angular Boot Camp - 5 days
- TT4190 Getting Started with React Essentials – 3 days
- TT4195 Mastering React Boot Camp |With Redux, Flux, Unit Testing, JSX & More – 5 days (TT4190 superset)
- Please see the online catalog for a complete list of courses and learning paths.

Course Topics / Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most. Course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.

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| <ol style="list-style-type: none"> 1. HTML Quick Refresh <ul style="list-style-type: none"> • Define HTML • Look at XHTML and its relationship to HTML • Identify HTML limitations and improvements • Hands-on Lab 2. Getting Started with HTML5 <ul style="list-style-type: none"> • HTML5: Status and Support • Semantic Structure and Tags • Handling Complex Media Options • Lab: Writing a Valid HTML5 Document | <ol style="list-style-type: none"> 3. HTML5 Forms <ul style="list-style-type: none"> • Working with Legacy Browsers • Forms, Input Types, and Data Qualification • Hands-on Lab 4. CSS Basics <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Overriding standard tag behavior • Adding new classes • Using custom classes in your page • Hands-on Lab 5. Getting started with CSS3 <ul style="list-style-type: none"> • What is new in CSS3 • The Advantages of CSS3 • Layout of elements using the display property • CSS Flexbox • Hands-on Lab |
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- 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

For More Information

For more information about our training services (instructor-led, self-paced or blended), collaborative coaching services, robust Learning Experience Platform (LXP), Career Experiences, public course schedule, partner programs, courseware licensing options or to see our complete list of course offerings, solutions and special offers, please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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