

Introduction to HTML5, CSS3 and JavaScript - TT4003

Learn to build beautiful, responsive, and interactive websites with HTML5, CSS3, and JavaScript - creating smooth, user-friendly experiences on any device.

Duration: 3 Days

Skill Level: Introductory

Available Format: Instructor-Led Online; Instructor-Led, Onsite In Person ; Blended;
On Public Schedule

Build the skills to create **modern, responsive, and interactive websites** with hands-on training in **HTML5, CSS3, and JavaScript**. In this expert-led course, you will learn to structure content effectively, design visually appealing layouts, and add dynamic functionality to bring web pages to life. With a **50% hands-on approach**, you will write real code, solve practical challenges, and apply best practices to ensure your websites are **well-organized, visually polished, and optimized for any device**. Whether you are starting your web development journey or expanding your technical skills, this course will give you the confidence to build **professional-quality websites from the ground up**.

What You'll Learn

Overview

Introduction to HTML5, CSS3, and JavaScript is a hands-on, expert-led course designed for **aspiring web developers, full stack developers, software engineers, and professionals** who want to build **modern, responsive websites with confidence**. Whether you are new to front-end development or have some programming experience but need structured guidance, this course provides **practical, real-world skills** to create, style, and enhance web pages from the ground up. If you understand the basics of how websites work, are comfortable using a text editor, and are eager to write real code, you will gain the knowledge and experience needed to turn web concepts into polished, interactive designs.

With about half the course dedicated to hands-on labs and activities, you will develop essential front-end scripting and design skills, starting with structuring content using HTML5 to ensure clarity and accessibility. You will then style and position layouts with CSS3, applying Flexbox, advanced selectors, and responsive design techniques to create visually engaging pages that adapt seamlessly to any screen. JavaScript will allow you to build interactive elements, handle user input, and dynamically update content, making your web pages more engaging and functional. Along the way, you will strengthen your problem-solving skills using debugging tools and best practices to optimize performance and troubleshoot issues efficiently. By the end of the course, you will have the ability to design, develop, and refine basic professional-quality web pages, setting the foundation for a career in web development, expanding your technical expertise, or bringing your personal projects to life.

Ways to Learn: At Trivera, we believe **Experience is Everything**. Our **customizable, hands-on courses** are delivered **live online, onsite, or in a blended format** for maximum flexibility. We provide real-time **expert-led training and coaching for all skill levels**, from **small groups to enterprise-wide programs**, ensuring every learner gains the latest, most relevant job-ready skills they can apply with confidence. This course is also available for **individuals or small groups** on our extensive **Public Schedule** (see current dates below). We look forward to helping you take the next steps in your modern web developer learning journey.

Objectives

Get ready to **dive deep into the world of modern web development!** This immersive, hands-on course blends **dynamic, expert-led instruction** with interactive demonstrations, real-world coding challenges, and engaging group activities.

With guidance from our seasoned instructor, you'll **roll up your sleeves** and explore:

- **Craft Stunning Web Pages from Scratch.** Build well-structured, responsive web pages using modern HTML5, ensuring accessibility and intuitive navigation.
- **Master CSS3 Styling for Eye-Catching Designs.** Transform basic layouts into visually dynamic, polished web experiences with Flexbox, advanced selectors, and interactive effects.
- **Bring Web Pages to Life with JavaScript.** Add interactivity and dynamic behaviors using JavaScript, from handling user input to manipulating the DOM in real time.
- **Debug Like a Pro & Optimize Performance.** Use browser developer tools to troubleshoot issues, fine-tune page performance, and ensure smooth functionality across devices.

- **Create Adaptive & Mobile-Ready Layouts.** Implement responsive design principles so your websites look and function beautifully on desktops, tablets, and smartphones.
- **Think Like a Web Developer.** Apply best practices in coding, structuring, and problem-solving, gaining the confidence to build and refine professional web projects.

Audience

This **introductory-level** course is designed for aspiring web developers, software engineers, and tech enthusiasts who want to build modern, responsive websites using HTML5, CSS3, and JavaScript. It's ideal for those with some technical background (such as basic coding or software experience) but no prior web development expertise. Perfect for developers, UX/UI designers, digital marketers, and IT professionals, this hands-on training will help you confidently create and style web pages while adding interactive functionality.

Pre-Requisites

To hit the ground running in this course, you should have:

- **Basic Web Awareness.** A general understanding of how websites work, including how browsers render web pages and basic internet concepts.
- **Comfort with Code Editing.** Familiarity with using a text editor or IDE to write and edit simple code (even if it's just tweaking existing files). You don't have to be a hard core programmer, but you should have seen code or scripting before.

Agenda

Please note that agenda topics, activities and overall timing is subject to change before class, or during live delivery, based on recent technical advancements, audience participation , skill level and interests.

1. Introduction to HTML Basics

- What is HTML?
- XHTML and its relationship to HTML
- HTML limitations and improvements
- Hands-On Lab

2. Getting Started with HTML5

- HTML5: Status and Support

- Semantic Structure and Tags
- Handling Complex Media Options

3. Creating Forms with HTML5

- 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. Exploring 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. JavaScript Basics

- JavaScript Defined
- Variables and Operators
- Flow Control and Conditionals
- Hands-On Lab

9. Debugging Tools

- Using the strict mode and setting breakpoints
- Browser debugging tools
- Monitoring resource usage and performance
- Emulating devices Exceptions in JavaScript
- Exceptions in JavaScript
- Hands-On Lab

10. JavaScript Functions

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

11. JavaScript Arrays, Math and Date

- JavaScript Literals
- JavaScript Arrays
- Working with Numbers and Dates
- Hands-On Lab

12. Exploring ES6 and TypeScript

- Introduction to ES6: Let, Const, and Arrow Functions
- Template Literals and Destructuring
- Understanding TypeScript and Why It's Useful
- Hands-On Lab

13. Diving Deeper: TypeScript

- TypeScript Basics: Types and Interfaces
- Working with TypeScript Classes and Modules
- Setting Up a TypeScript Project and Compiling Code
- Hands-On Lab

14. JavaScript Event Handling and the DOM

- Events and Event Handling
- HTML Document Object Model
- Accessing the DOM
- Dynamically Working with the DOM
- DOM Challenges
- Hands-On Lab

15. Object-Oriented JavaScript

- JavaScript 'Objects' and 'Classes'
- Constructors and Prototypes
- Extending Classes with Prototype

- Reusable, Flexible Classes
- Hands-On Lab

Follow On Courses

TT4213	User Experience (UX) Design & Responsive Design for Experienced Web Developers
TT4115	JavaScript & jQuery Essentials
TT4165	Introduction to Angular 18 Essentials
TT4168	Mastering Angular 18 Boot Camp
TT4190	Getting Started with React Essentials
TT4195	Mastering React Boot Camp

Related Courses

TT4002	Introduction to HTML5 / CSS3 and Responsive Design
TT4110	Introduction to JavaScript / Modern JavaScript Essentials
TT4115	JavaScript & jQuery Essentials
TT4003	Introduction to HTML5, CSS3 and JavaScript
TT4165	Introduction to Angular 18 Essentials
TT4168	Mastering Angular 18 Boot Camp
TT4190	Getting Started with React Essentials
TT4195	Mastering React Boot Camp

All applicable course software, digital courseware files or course notes, labs, data sets and solutions, live coaching support channels and rich extended learning and post training resources are provided for you in our “easy access, single source, no install required” online **Learning Experience Platform (LXP)**, remote lab and content environment. Access periods vary by course. We’ll collaborate with you to ensure your team is set up and ready to go well in advance of the class. Please inquire about set up details and options for your specific course of interest.

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.