

## Web Developer SkillJourney

### Introduction to HTML5 / CSS3 and JavaScript (TT4003)

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

#### Course Snapshot

- **Course: Introduction to HTML5 / CSS3 and JavaScript (TT4003)**
- **Duration:** 3 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 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 JavaScript** is a three-day hands-on course geared for web developers beginning their journey in modern web design and coding. Over three days, you'll explore the essentials of HTML5, CSS3, and JavaScript – the core trio that powers the internet. You'll learn how to build visually appealing, responsive websites and applications, skills that are vital in today's digital landscape. Whether you're aiming to improve your daily tasks, enhance your organization's online presence, or start personal web projects, mastering these tools will give you a competitive edge and open doors to creative opportunities.

You'll delve into six key areas, starting with a refreshing look at HTML and XHTML, moving into the nuances of HTML5 with its advanced structures and media options, and tackling HTML5 forms. In the CSS segment, you'll master styling, from basic declarations to advanced techniques in CSS3 like Flexbox layouts and visual effects. The JavaScript sessions will ground you in the essentials, from basic syntax to advanced concepts like Object-Oriented Programming and DOM manipulation. The 50% hands-on labs ensure you get practical experience, applying what you learn to real-world scenarios. These labs are crafted to encourage creative problem-solving and build confidence in applying new skills effectively.

By the end of the course, you'll have a comprehensive understanding of how these technologies work together to create the web. More importantly, you'll think like a web developer, equipped with both the technical skills and the innovative mindset needed to tackle web development tasks. Our industry expert instructor will guide you with practical advice and real-world examples, ensuring you leave the course not just with knowledge, but with the confidence to apply these skills in your daily work. This course isn't just about learning; it's about transforming you into a skilled, adaptable, and forward-thinking web developer.

#### 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:

- **Get comfortable with HTML5:** Learn to create web pages with modern structure and interactive forms.
- **Have fun with CSS3:** Play with styles, colors, and layouts to make your web designs pop.
- **Dive into JavaScript:** Discover how to bring your web pages to life with interactive elements.
- **Tackle web challenges:** Use debugging tools to solve problems and improve your site's performance.
- **Embrace flexibility:** Learn how to make your websites look great on any device and browser.

## 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"> <li><b>1. HTML Quick Refresh</b> <ul style="list-style-type: none"> <li>• Define HTML and review its history</li> <li>• Look at XHTML and its relationship to HTML</li> <li>• Identify HTML limitations and improvements</li> <li>• Hands-On Lab</li> </ul> </li> <li><b>2. Getting Started with HTML5</b> <ul style="list-style-type: none"> <li>• HTML5: Status and Support</li> <li>• Semantic Structure and Tags</li> <li>• Handling Complex Media Options</li> </ul> </li> <li><b>3. Working with HTML5 Forms</b> <ul style="list-style-type: none"> <li>• Working with Legacy Browsers</li> <li>• Forms, Input Types, and Data Qualification</li> <li>• Hands-On Lab</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li><b>4. CSS Basics</b> <ul style="list-style-type: none"> <li>• Learn the basics of CSS</li> <li>• Meaning of cascading in CSS</li> <li>• Declaring CSS within your HTML page</li> <li>• Creating styles in an external CSS file</li> <li>• Control how to display and position HTML elements</li> <li>• Overriding standard tag behavior</li> <li>• Adding new classes</li> <li>• Using custom classes in your page</li> <li>• Hands-On Lab</li> </ul> </li> <li><b>5. Exploring CSS3</b> <ul style="list-style-type: none"> <li>• What is new in CSS3</li> <li>• The Advantages of CSS3</li> <li>• Layout of elements using the display property</li> <li>• CSS Flexbox</li> </ul> </li> </ol> | <ul style="list-style-type: none"> <li>• Hands-On Lab</li> <li><b>6. CSS3 Advanced Selectors</b> <ul style="list-style-type: none"> <li>• Selecting Using Attributes</li> <li>• Selecting Using DOM Structure</li> <li>• Complex Selecting using Pseudo-Classes</li> <li>• Selecting Using UI Components and State</li> <li>• Hands-On Lab</li> </ul> </li> <li><b>7. CSS3 Visual Effects</b> <ul style="list-style-type: none"> <li>• Font Options, Opacity, and Color</li> <li>• Distributing Content Across Columns</li> <li>• Working with Borders and Boxes</li> <li>• Working with Vendor Prefixes</li> <li>• Functional Techniques</li> <li>• Hands-On Lab</li> </ul> </li> </ul> |
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## 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. 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

## 13. Object-Oriented JavaScript

- JavaScript “Objects” and “Classes”
- Constructors and Prototypes
- Prototypes
- Extending Classes with Prototype
- Reusable, Flexible Classes
- Hands-On Lab

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### 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](http://www.triveratech.com), email [Info@triveratech.com](mailto:Info@triveratech.com) or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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 PARTNER & RESELLER PROGRAMS • CORPORATE TRAINING MANAGEMENT • VENDOR MANAGEMENT SERVICES

Trivera Technologies is a Woman-Owned Small-Business Firm

