

# Building Responsive Web Applications with CSS3

**Course Number:** 522

**Duration:** 4 Days

Learn how to build accessible and responsive web applications featuring a rich UI that performs across the widest possible range of internet-capable devices. In this training course, you gain the skills to design WCAG-compliant and responsive content by creating collapsible navigation, content, data tables and forms. You will employ modern, mobile-first design techniques leveraging typography, flexbox, CSS3 functions and pseudo-selectors, and explore CSS integration with modern JavaScript frameworks like Angular and jQuery.

## You Will Learn How To

- Design Accessible Web Sites using industry standard Accessibility Guidelines
- Create Responsive Layouts that adapt to any device size or operating system
- Leverage Web Typography and modern, responsive units of measure
- Capture user input with responsive and accessible forms and data tables
- Implement SASS via Ruby CLI and create a Bootstrap 4 design template
- Manage CSS within popular MVC and DOM frameworks like Angular and jQuery

## Important Course Information

### Requirements:

- HTML experience at the level of:
  - [Course 470](#), Developing a Website

### Software:

- All versions of CSS are covered in this course with careful attention to CSS3

## Course Outline

### Introduction to Cascading Style Sheets

- Formalize relationship between HTML, JavaScript and CSS
- Define Modern Browser and Web Accessibility
- Develop reusable classes
- Leverage the CSS Inheritance Model
- Optimize your code with Embedded and External CSS
- Update your browser with development assets

### Styling the CSS Box Model

- Style HTML container box properties
- Leverage differences between block and inline elements
- Manipulate color and transparency
- Develop global and consistent style resets

### Selecting DOM Elements and Attributes

- Target DOM elements and attributes for style
- Make selections based on DOM hierarchy
- Select based on DOM element behavior
- Chain selections and apply CSS functions

### Positioning with Accuracy and Consistency

- Manipulate static, absolute, relative and fixed position rules
- Float and clear floated containers

- Apply flexible box model techniques
- Explore CSS columns and grids

## Web Typography

- Distinguish font from typeface and apply font properties
- Apply text, letter and line properties
- Employ web fonts

## Accessible and Responsive Forms and Data Tables

- Explore regional interpretations of Accessibility
- Create accessible and responsive forms based on WCAG
- Leverage and extend HTML5 for validation
- Build accessible and responsive data tables based on WCAG

## Templating with SASS, LESS and Bootstrap

- Qualify strengths of CSS preprocessing frameworks
- Install Ruby and SASS on Windows and create a SCSS document
- Compile SCSS to CSS and investigate alternative pre-processing tools
- Leverage Bootstrap 4 CSS library

## Styling DOM and MVC JS Frameworks

- Animate DOM content with pure CSS
- Add menu toggles with JavaScript
- Manage CSS selector syntax with jQuery and Angular
- Implement responsive and infinite scrolling

## In the Classroom — OR — Live, Online

Tuition — Standard: Government:

Jul 31 - Aug 3 Online (AnyWare)\*\* (4 Days)

Aug 21 - 24 New York / Online (AnyWare)\*\* (4 Days)

Sep 25 - 28 Ottawa / Online (AnyWare) (4 Days)

Oct 30 - Nov 2 Herndon, VA / Online (AnyWare) (4 Days)

Feb 19 - 22 New York / Online (AnyWare) (4 Days)

Mar 26 - 29 Ottawa / Online (AnyWare) (4 Days)

Apr 23 - 26 Herndon, VA / Online (AnyWare) (4 Days)

## Tuition

### Standard

\$2990

### Government

\$2659

Course Tuition Includes:

#### After-Course Instructor Coaching

When you return to work, you are entitled to schedule a free coaching session with your instructor for help and guidance as you apply your new skills.

#### After-Course Computing Sandbox

You'll be given remote access to a preconfigured virtual machine for you to redo your hands-on exercises, develop/test new code, and experiment with the same software used in your course.

### Free Course Exam

You can take your Learning Tree course exam on the last day of your course or online any time after class.

## Training Hours

**Standard Course Hours:** 9:00 am – 4:30 pm

*\*Informal discussion with instructor about your projects or areas of special interest: 4:30 pm – 5:30 pm*

## Enhance Your Credentials with Professional Certification

Learning Tree's comprehensive training and exam preparation guarantees that you will gain the knowledge and confidence to achieve professional certification and advance your career.

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Earn 17 Credits from NASBA

This course qualifies for 17 CPE credits from the National Association of State Boards of Accountancy CPE program. **NOTE:** Only live, in-class attendance qualifies for NASBA CPEs. [Read more ...](#)