

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: \$2990 Government: \$2659

Jan 30 - Feb 2 Online (AnyWare)** (4 Days)

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

May 15 - 18 Herndon, VA / Online (AnyWare) (4 Days)

Jul 31 - Aug 3 Toronto / 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)

Tuition

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\$2990

Government

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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 ...](#)