Course Content

Course Description:
In this course, you will cover all of the HTML and CSS skills that are needed on the job. This course gets you going with HTML and CSS as quickly as possible and then builds out your skills in a professional way. To make that manageable, it's divided into four sections.

Course Objectives:
- Develop web pages at a professional level
- Use Flexible Box Layout and Grid Layout to provide RWD for web pages and portions of web pages
- Understand when and how to use tables, including how to make them responsive
- Make websites more effective by focusing on users, usability, and the established guidelines for web design
- Deploy a site on an Internet server and understand how to get the site indexed by the major search engines
- Add JavaScript and jQuery features like image swaps and slide shows to web pages…without knowing how to code JavaScript and jQuery

Prerequisites:
None.

Target Audience:
This course is for anyone who wants to develop web pages at a thoroughly professional level. That includes:
- Budding web designers and developers
- Web developers who need to expand and enhance their skillsets
- JavaScript programmers who need to know more about the HTML and CSS that they're scripting
- Web developers who use Content Management Systems and discover that they desperately need to know what's going on behind the scenes

Topics:

Lesson 1: Introduction to Web Development
- How Web Applications Work
- An Introduction to HTML and CSS
- Tools for Web Development
- How to View a Web Page and Its Source Code
- Four Critical Web Development Issues

HTML, CSS and JavaScript

Course ID #: 7000-660-ZZ-Z

Hours: 21

Lesson 2: How to Code, Test, and Validate a Web Page
- The HTML Syntax
- The CSS Syntax
- How to Use VS Code to Develop Web Pages
- How to Test and Debug a Web Page
- How to Validate HTML and CSS Files

Lesson 3: How to Use HTML to Structure a Web Page
- How to Code the Head Section
- How to Present the Contents of a Web Page
- Other Elements for Presenting Text
- How to Code Links, Lists, and Images
- A Structured Web Page

Lesson 4: How to Use CSS to Format the Elements of a Web Page
- An Introduction to CSS
- How to Specify Measurements and Colors
- How to Work with Text
- How to Use Other Selectors to Apply Styles
- The HTML and CSS for a Web Page
- How to Use Developer Tools and Custom Properties

Lesson 5: How to Use the CSS Box Model
- An Introduction to the Box Model
- How to Size and Space Elements
- A Web Page that Illustrates Sizing and Spacing
- How to Set Borders and Backgrounds
- A Web Page that Users Borders and Backgrounds

Lesson 6: How to Use CSS for Page Layout
- How to Develop 2- and 3-Column Page Layouts
- A Home Page with a 2-Column, Fixed-Width Layout
- A Speaker Page with a 2-Column, Fixed-Width Layout
- How to Create Text Columns
- How to Position Elements

Lesson 7: How to Work with Lists, Links, and Navigation Menus
- How to Code Lists
- How to Format Lists
- How to Code Links
- How to Create Navigation Menus

Lesson 8: How to Use Media Queries for Responsive Web Design
- Introduction to Responsive Web Design
- How to Implement a Fluid Design
- A Web Page with Fluid Design
- How to Use Media Queries
- A Web Page with Responsive Web Design
- The CSS When Using Mobile-First Coding

Lesson 9: How to Use Flexible Box Layout for Responsive Web Design
- An Introduction to Flexible Box Layout
- How to Set Flexbox Properties
- A Responsive Web Page that Uses Flexbox

Lesson 10: How to Use Grid Layout for Responsive Web Design
- Getting Started with Grid Layout
- How to Define the Grid Areas for Elements
- A Responsive Web Page that Uses Grid Layout
- Common Page Layouts that Use Grid

Lesson 11: How to Work with Images, Icons, and Fonts
- Basic Skills for Working with Images
- Other Skills for Working with Images
- How to Provide Images for Varying Viewport Sizes
- How to Get the Images and Icons that You Need
- How to Work with Fonts

Lesson 12: How to Work with Tables
- Basic HTML Skills for Coding Tables
- Basic CSS Skills for Formatting Tables
- Other Skills for Working with Tables

Lesson 13: How to Work with Forms
- How to Use Forms and Controls
- Other Skills for Working with Forms
- How to Use the HTML Features for Data Validation
- A Web Page with a Form
- How to Use Other HTML Controls

Lesson 14: How to Add Audio and Video to a Web Page
- An Introduction to Media on the Web
- A Web Page with Audio and Video

Lesson 15: How to Use CSS Transitions, Transforms, Animations, and Filters
- How to Use CSS Transitions
- How to Use CSS Transforms
- How to Use CSS Animations
- How to Use CSS Filters

Lesson 16: Users, Usability, and Web Design
- Users and Usability
- Design Guidelines

Lesson 17: How to Deploy a Website
- How to Transfer Files To and From an Internet Server
- How to Start Your Own Website

Lesson 18: How to Use JavaScript to Enhance Your Web Pages
- Introduction to JavaScript
- The Email List Application in JavaScript
- Introduction to jQuery
- The Email List Application in jQuery
- How to Use JavaScript as a Non-Programmer

Register for this class by visiting us at:
www.tcworkshop.com or calling us at 800-639-3535