



40410: JavaScript™, HTML and CSS Web Development

Duration: 2 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course introduces HTML, JavaScript and CSS as programming and mark-up languages that are used to create web applications. Participants will gain experience with each language individually and then combine them to create compelling web application solutions. They will have an opportunity to use Visual Studio Code on their operating system of choice to create and test their web applications. This course teaches basic tasks that are necessary to create web applications with a strong semantic structure, re-usable style components and custom interactive features. This course also enables participants to build basic HTML pages that are the components of a web application used to solve real-world problems.

Target Audience

This course is intended for:

- Individuals who are interested in learning about the core skills necessary for web development.

Prerequisites

To attend this course, candidates should have:

- Some light experience with software development.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Explore the historical context and justification for HTML.
- Create HTML5 documents.
- Use HTML elements to add content to a HTML page.
- User hyperlinks to connect various HTML pages.
- Capture user input using forms.
- Create content using HTML5 semantic elements.



Course Objectives *Continued*

- Create SVG Graphics.
- Create CSS stylesheets.
- Author sophisticated CSS rule sets and selectors.
- Layout HTML elements using CSS margin and padding.
- Implement program logic using JavaScript.
- Leverage HTML5 APIs using JavaScript.
- Implement advanced web applications using jQuery, AngularJS, Bootstrap, TypeScript, or Sass.

Course Topics

Module 1: Creating Web Pages using Hypertext Mark-up Language (HTML)

- Introduction to HTML
- Document Structure and Layout
- Basic HTML Elements
- Formatting HTML Elements
- Hyperlinks

Module 2: Creating Sophisticated Document Structures using HTML

- Capturing User Input
- HTML5 Semantic Elements
- Scalable Vector Graphics (SVG)
- Implementing Media Controls

Module 3: Designing Web Pages Elements using Cascading Style Sheets (CSS)

- Introduction to CSS
- Style Definitions
- Style Inheritance
- Box Model
- Fonts

Module 4: Implementing Program Flow using JavaScript (JS)

- Introduction to JavaScript
- JavaScript Types
- JavaScript Call-backs
- Advanced JavaScript
- HTML5 APIs

Module 5: Adding External Libraries to Enhance HTML Applications

- jQuery
- AngularJS
- Bootstrap
- TypeScript
- Sass

LABS INCLUDED

