

# PROGRAMMING IN HTML5 WITH JAVASCRIPT AND CSS3

Course Code: 821523

Learn to program using HTML5, CSS3, and JavaScript with Visual Studio 2012.

This course provides an introduction to HTML5, CSS3, and JavaScript. This course helps students gain basic HTML5/CSS3/JavaScript programming skills. This course is an entry point into both the Web application and Windows Store apps training paths. The course focuses on using HTML5/CSS3/JavaScript to implement programming logic, define and use variables, perform looping and branching, develop user interfaces, capture and validate user input, store data, and create well-structured application. The lab scenarios in this course are selected to support and demonstrate the structure of various application scenarios. They are intended to focus on the principles and coding components/structures that are used to establish an HTML5 software application. This course uses Visual Studio 2017, running on Windows 10.

## What You'll Learn

- Explain how to use Visual Studio 2017 to create and run a Web application.
- Describe the new features of HTML5, and create and style HTML5 pages.
- Add interactivity to an HTML5 page by using JavaScript
- Create HTML5 forms by using different input types and validate user input using HTML5 attributes and JavaScript code
- Send and receive data to and from a remote data source by using XMLHttpRequest objects and Fetch API
- Style HTML5 pages by using CSS3
- Create well-structured and easily-maintainable JavaScript code
- Write modern JavaScript code and use babel to make it compatible to all browsers
- Use common HTML5 application programming interfaces (APIs) in interactive Web applications
- Create web applications that support offline operations
- Create HTML5 web pages that can adapt to different devices and form factors
- Add advanced graphics to an HTML5 page using Canvas elements and Scalable Vector Graphics
- Enhance the user experience by adding animations to an HTML5 page

- Use web sockets to send and receive data between a web application and a server
- Improve the responsiveness of a web application that performs long-running operations by using web worker processes
- Use WebPack to package web applications for production

## Who Needs to Attend

- Developers who have at least six months of professional experience and who are interested in developing applications using HTML5 with JavaScript and CSS3 (either Windows Store apps or IE10 apps for the web)
- Developers who have more than five years programming experience may find that portions of this training are fundamental in nature when presenting the syntax associated with certain programming tasks

## Prerequisites

- 1 - 3 months experience creating Web applications, including writing simple JavaScript code
- 1 month experience creating Windows client applications
- 1 month of experience using Visual Studio 2017
- Knowledge of common style HTML elements using CSS, including:
  - ☒ Separating presentation from content
  - ☒ Managing content flow
  - ☒ Managing positioning of individual elements
  - ☒ Managing content overflow
  - ☒ Basic CSS styling
  - ☒ Programming Fundamentals of Web Applications (10958)



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5 Day

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