MS20480 - Programming in HTML5 with JavaScript and CSS3

Microsoft - Visual Studio - Sviluppo

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**MCSA Web Applications**

Descrizione del corso

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.

Programma

1. Overview of HTML and CSS
    - Overview of HTML
    - Overview of CSS
    - Creating a Web Application by Using Visual Studio 2012
2. Creating and Styling HTML5 Pages
    - Creating an HTML5 Page
    - Styling an HTML5 Page
3. Introduction to JavaScript
    - Overview of JavaScript Syntax
    - Programming the HTML DOM with JavaScript
    - Introduction to jQuery

4. Creating Forms to Collect Data and Validate User Input
    - Overview of Forms and Input Types
    - Validating User Input by Using HTML5 Attributes
    - Validating User Input by Using JavaScript
5. Communicating with a Remote Data Source
    - Sending and Receiving Data by Using XMLHTTPRequest
    - Sending and Receiving Data by Using jQuery AJAX operations
6. Styling HTML5 by Using CSS3
    - Styling Text
    - Styling Block Elements
    - CSS3 Selectors
    - Enhancing Graphical Effects by Using CSS3
7. Creating Objects and Methods by Using JavaScript
    - Writing Well-Structured JavaScript
    - Creating Custom Objects
    - Extending Objects
8. Creating Interactive Pages using HTML5 APIs
    - Interacting with Files
    - Incorporating Multimedia
    - Reacting to Browser Location and Context
    - Debugging and Profiling a Web Application
9. Adding Offline Support to Web Applications
    - Reading and Writing Data Locally
    - Adding Offline Support by Using the Application Cache
10. Implementing an Adaptive User Interface
    - Supporting Multiple Form Factors
    - Creating an Adaptive User Interface
11. Creating Advanced Graphics
    - Creating Interactive Graphics by Using Scalable Vector Graphics
    - Programmatically Drawing Graphics by Using a Canvas
12. Animating the User Interface
    - Applying CSS Transitions
    - Transforming Elements
    - Applying CSS Key-frame Animations
13. Implementing Real-Time Communications by Using Web Sockets
    - Introduction to Web Sockets
    - Sending and Receiving Data by Using Web Sockets

14. Creating a Web Worker Process
    - Introduction to Web Workers
    - Performing Asynchronous Processing by Using a Web Worker

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