

Training: Microsoft  
MS-20480 Programming in HTML5 with JavaScript and CSS3

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Digital materials	950 EUR	5 days
Traditional	CTAB Tablet	1050 EUR	5 days

## LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

## TRAINING TERMS

2019-08-05 | 5 days | Warszawa

2019-09-16 | 5 days | Kraków

2019-10-21 | 5 days | Warszawa

2019-12-16 | 5 days | Kraków

## TRAINING GOALS:

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 2012**, running on **Windows 8**.

## CONSPECT:

- Module 1: Overview of HTML and CSS
  - Overview of HTML
  - Overview of CSS
  - Creating a Web Application by Using Visual Studio 2012
- Module 2: Creating and Styling HTML5 Pages

- Creating an HTML5 Page
- Styling an HTML5 Page
- Module 3: Introduction to JavaScript
  - Overview of JavaScript Syntax
  - Programming the HTML DOM with JavaScript
  - Introduction to jQuery
- Module 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
- Module 5: Communicating with a Remote Data Source
  - Sending and Receiving Data by Using XMLHttpRequest
  - Sending and Receiving Data by Using jQuery AJAX operations
- Module 6: Styling HTML5 by Using CSS3
  - Styling Text
  - Styling Block Elements
  - CSS3 Selectors
  - Enhancing Graphical Effects by Using CSS3
- Module 7: Creating Objects and Methods by Using JavaScript
  - Writing Well-Structured JavaScript
  - Creating Custom Objects
  - Extending Objects
- Module 8: Creating Interactive Pages using HTML5 APIs
  - Interacting with Files
  - Incorporating Multimedia
  - Reacting to Browser Location and Context
  - Debugging and Profiling a Web Application
- Module 9: Adding Offline Support to Web Applications
  - Reading and Writing Data Locally
  - Adding Offline Support by Using the Application Cache
- Module 10: Implementing an Adaptive User Interface
  - Supporting Multiple Form Factors
  - Creating an Adaptive User Interface
- Module 11: Creating Advanced Graphics
  - Creating Interactive Graphics by Using Scalable Vector Graphics
  - Programmatically Drawing Graphics by Using a Canvas

- Module 12: Animating the User Interface
  - Applying CSS Transitions
  - Transforming Elements
  - Applying CSS Key-frame Animations
- Module 13: Implementing Real-Time Communications by Using Web Sockets
  - Introduction to Web Sockets
  - Sending and Receiving Data by Using Web Sockets
- Module 14: Creating a Web Worker Process
  - Introduction to Web Workers
  - Performing Asynchronous Processing by Using a Web Worker

## REQUIREMENTS:

- Before attending this course, students must have at least three months of professional development experience.
- In addition to their professional experience, students who attend this training should have a combination of practical and conceptual knowledge related to **HTML5 programming**.

## Difficulty level



## CERTIFICATE:

The participants will obtain Microsoft certificates.

## TRAINER:

Microsoft Certified Trainer.