

Programming in HTML5 with CSS

A 5 day **Hands on** training course

Description

This course provides an introduction to HTML5, CSS3, and JavaScript. It 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.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Create and style HTML5 pages.
- ✓ Use JavaScript.
- ✓ Style HTML5 pages by using CSS3.
- ✓ Use common HTML5 APLs in interactive Web applications.
- ✓ Create HTML5 Web pages that can adapt to different devices and form factors.
- ✓ Enhance the user experience by adding animations to the HTML5 page.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Website developers

Prerequisites

HTML development fundamentals.

Duration: 5 days

Overall rating:



Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

Programming in HTML5 with CSS

Course Content

Overview of HTML and CSS

Overview of HTML, Overview of CSS, Creating a Web Application by Using Visual Studio 2012.
Lab : Exploring the Contoso Conference Application.

Creating and Styling HTML5 Pages

Creating an HTML5 Page, Styling an HTML5 Page.
Lab : Creating and Styling HTML5 Pages.

Introduction to JavaScript

Overview of JavaScript Syntax, Programming the HTML DOM with JavaScript, Introduction to jQuery.
Lab : Displaying Data and Handling Events by Using JavaScript.

Creating Forms to Collect and Validate User Input

Overview of Forms and Input Types, Validating User Input by Using HTML5 Attributes, Validating User Input by Using JavaScript.
Lab : Creating a Form and Validating User Input.

Communicating with a Remote Data Source

Sending and Receiving Data by Using XMLHttpRequest, Sending and Receiving Data by Using jQuery AJAX operations.
Lab : Communicating with a Remote Data Source.

Styling HTML5 by Using CSS3

Styling Text, Styling Block Elements, CSS3 Selectors, Enhancing Graphical Effects by Using CSS3.
Lab : Styling Text and Block Elements using CSS3.

Creating Objects and Methods by Using JavaScript

Writing Well-Structured JavaScript, Creating Custom Objects, Extending Objects.
Lab : Refining Code for Maintainability and Extensibility.

Creating Interactive Pages using HTML5 APIs

Interacting with Files, Incorporating Multimedia, Reacting to Browser Location and Context, Debugging and Profiling a Web Application.
Lab : Creating Interactive Pages by Using HTML5 APIs.

Adding Offline Support to Web Applications

Reading and Writing Data Locally, Adding Offline Support by Using the Application Cache.
Lab : Adding Offline Support to a Web Application.

Implementing an Adaptive User Interface

Supporting Multiple Form Factors, Creating an Adaptive User Interface.
Lab : Implementing an Adaptive User Interface.

Creating Advanced Graphics

Creating Interactive Graphics by Using Scalable Vector Graphics, Programmatically Drawing Graphics by Using a Canvas.
Lab : Creating Advanced Graphics.

Animating the User Interface

Applying CSS Transitions, Transforming Elements, Applying CSS Key-frame Animations.
Lab : Animating User Interface Elements.

Web Sockets for Real-Time Communications

Introduction to Web Sockets, Sending and Receiving Data by Using Web Sockets.
Lab : Implementing Real-Time Communications by Using Web Sockets.

Creating a Web Worker Process

Introduction to Web Workers, Performing Asynchronous Processing by Using a Web Worker.
Lab : Creating a Web Worker Process.

