



# MTA HTML5 Application Development Fundamentals

The MTA HTML5 Application Development Fundamentals course will give you a solid introduction to HTML5, which consists of three major areas: Hypertext Mark-up Language (HTML), Cascading Style Sheets (CSS3) and JavaScript.

## IS THIS FOR YOU?

The MTA HTML5 Application Development Fundamentals course is for any aspiring programmers, app developers or web developers. This particular course is suitable for those completely new to this globally recognised mark-up language.

## COURSE OUTLINE

This is an entry level course for anyone who is looking to start their career in technology and programming; designing and creating apps or websites.

Throughout this course will with be guided through HTML5 which is three different types of code; HTML, CSS and JavaScript. By learning this world renowned mark-up language you will be able to plan, design, create and deploy interactive websites, apps, animations and more.

This course is broken down into four sessions which are led by an expert in this field. As well as the tutorials, you will be able to take part in interactive labs and have access to pre/post test questions.

The content within this course will help you gain the knowledge required to sit the Microsoft Technology Associate exam 98-375.

**There are four sessions within this course:**

### Session 1

**Section A: MTA HTML5 Introduction:** Welcome, How to Study for the 98-375 Exam.

**Section B: HTML5 Basics:** What is HTML?, Tag Rules and Attributes, The First Four Tags and DOCTYPE, Paragraphs, Headings, Hyperlinks, Formatting, Strong and Emphasis Tags, Nesting, Entities, The Mark Tag, Other New HTML5 Tags.

**Section C: Add and Configure Images:** The Image Tag, Figures and Captions, Canvas, Scalable Vector Graphics, Choosing Canvas or SVG.

**Section D: Media in HTML5:** Video, Audio.

**Section E: Organise Content:** Tables, Table Formatting and Captions, The Thead, Tfoot and Tbody Tags, Unordered Lists, Sections, Articles, The Aside and Hr Tags, The Nav Tag, Headers and Footers.

**Section F: Forms:** Build a Form, The Input Tag, More Input Tags, Select and Text Area Tags, Data Validation.

**Section G: Session 1 Recap:** Domain 2 Test Tips.

### Session 2

**Section A: Core CSS Concepts:** Purpose of CSS, Inline Styles, Internal Style Sheets, Classes, External Style Sheets, IDs and Imports, Inheritance and Overrides, Style Inheritance, Content Flow, Troubleshooting CSS, Floating Text, Absolute Positioning, Content Overflow.

**Section B: CSS and UI Content:** Box Layouts, Flexbox, Scaling, Order and Arrange Content, Grid Layout and Content, Properties, Grid Templates.

**Section C: CSS and Content Flow:** Regions, Columns, Hyphenation, Positioned Floats.

**Section D: CSS and Graphics:** Graphics Effects, Rounded Corners and Shadows, Transparency and Gradients, Web Open Font Format, 2-D and 3-D Transformations, Rotations, Skews, Animations, SVG Filter Effects, Canvas.

**Section E: Session 2 Recap:** Domain 3 Test Tips.

*Continues over the page...*



### Session 3

**Section A: JavaScript Introduction:** What is JavaScript?, First JavaScript Example, Create and Use Functions, jQuery and Other Third-Party Libraries.

**Section B: Update the UI with JavaScript:** Locate and Access Elements, Update Content Using Event Handling, Show and Hide Elements, Add Elements.

**Section C: Animations with JavaScript:** Animation Overview, Manipulate a Canvas, Animate Images, Shapes and Graphics.

**Section D: JavaScript and Data:** Overview of Accessing Data, Send and Receive Data, Transmit and Parse Complex Objects, Load and Save Files, AppCache, Data Types, Validate Forms, Test Validation, Cookies, Local Storage.

**Section E: Touch Interfaces and APIs:** Gestures and Responses, API Overview, Geolocation, Web Workers, WebSocket, File API.

**Section F: Device and Operating System Resources:** In-Memory Resources, Hardware Capabilities.

**Section G: Session 3 Recap:** Domain 4 Test Tips.

### Session 4

**Section A: Platform Fundamentals:** App Packages and Containers, Credentials and Permission Sets, Host Processes, HTML5 and Table Applications.

**Section B: Manage Application States:** Understand States, Local and Session Storage.

**Section C: Debug and Test Touch-Based Apps:** Debug Capabilities, Touch Gestures and Testing.

**Section D: Session 4 Recap:** Domain 1 Test Tips.

**Section E: Course Recap:** Final Test Tips and Conclusion.

### AIMS AND OBJECTIVES

This course aims to help those new to HTML, CSS3 and JavaScript gain a solid entry-level knowledge. You will also learn about the application life cycle so you would be able to plan, design, code, test, validate and deploy HTML5 apps and websites.

The content within this course will prepare you to take the Microsoft Technology Associate 98-375 exam.

### PRE-REQUISITES

This course is most suited to those with little or no previous experience of HTML.

### CAREER PATH

With such a thriving industry as is the case with web development the opportunities to progress your career are numerous. With continued learning and development you could work towards Senior Developer roles or move towards App Development for example.

### COURSE DURATION - AROUND 40 HOURS

*(Actual course duration will vary from individual to individual, based on prior skills and application).*



**CPD POINTS: 40**

*(Awarded CPD points upon successful completion).*

**To find out more about this or any of our courses, speak to one of our course advisors.**

The best way to predict the future **is to create it.**

To discuss your current skills and aspirations, or to book your course, call...

**020 7256 6668** or email: [courses@pitmanlondon.co.uk](mailto:courses@pitmanlondon.co.uk)

[www.pitmanlondon.co.uk](http://www.pitmanlondon.co.uk) Salisbury House London Wall London EC2M 5QQ

**PITMAN**  
TRAINING