



40375: HTML5 Application Development Fundamentals

Duration: 3 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Certification: Microsoft® Technology Associate (MTA): HTML5 Application Development Fundamentals — **Exam:** 98-375: HTML5 Application Development Fundamentals

Course Description

This course provides an understanding of HTML5, CSS3, and JavaScript™ and helps participants build the necessary development skills needed in using these technologies. It also helps participants prepare for the certification exam.

Target Audience

This course is intended for Persons who wish to:

- Learn core HTML5 client application development skills that will run on today's touch-enabled devices (PCs, tablets, and phones)
- Take the certification exam.

Prerequisites

To attend this course, candidates must have:

- General office computer skills.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Manage the application life cycle.
- Build the user interface (UI) using HTML5.
- Format the UI using Cascading Style Sheets (CSS).
- Use JavaScript code.



Course Topics

Module 1: Manage the Application Life Cycle

- Understand the Platform Fundamentals
- Manage the State of an Application
- Debug and Test an HTML5-Based, Touch-Enabled Application

Module 2: Build the User Interface Using HTML5 Part 1

- Display Text Content Using HTML5 Tags
- Display Graphics Using HTML5 Tags
- Play Media by Using HTML5 Tags

Module 3: Building the User Interface by Using HTML5 Part 2

- Organize Content and Forms with the Use of HTML5 Tags
- Implement HTML5 Tags for Input and Validation

Module 4: Understand CSS Essentials

- Create Style Content with CSS
- Manage Content Flow
- Manage the Positioning of Individual Elements
- Manage Content Overflow
- Basic CSS Styling

Module 5: Understand CSS Layouts

- Establish Content Alignment, Direction, and Orientation
- Order and Arrange Content Using Simple Layouts and Complex Layouts
- Manage Grid Content Properties for Rows and Columns
- Use Application Templates

Module 6: Manage Text Flow by Using CSS

- Create Flow of Text Content Between Multiple Sections
- Optimize Text Readability
- Create Text Flow Around a Floating Object

Module 7: Manage the Graphical Interface by Using CSS

- Create Graphical Effects
- Implement Transformations (2D and 3-D)
- Apply SVG Filter Effects

Module 8: Understand JavaScript and Coding Essentials

- Create and Use Functions
- Use Other Third-Party Libraries
- Locate and Implement Elements
- Update the Content of Elements

Module 9: Create Animations, Work with Graphics, and Access Data

- Code Animations by Using JavaScript
- Work with Images, Shapes, and Other Graphics
- Access Data Access by Using JavaScript

Module 10: JavaScript Coding for the Touch Interface, Device and Operating System Resources, and More

- Respond to the Touch Interface
- Code Additional HTML5 APIs
- Access Device and Operating System Resources

LABS INCLUDED

