

## TA-005: HTML5 & CSS3 - Content Authoring with New and Advanced Features

### Introduction:

In the current age, using the Internet has become essential to communication and gaining access to information, much like the telephone and newspapers were to earlier generations. Familiarity with the Internet comes with a certain level of expectation regarding the attractiveness and ease of use of web pages. Web designers need to create effective and successful websites. If users find your website difficult to navigate, they may not visit it again. HTML5 and CSS3 are some of the most integral and evolving web technologies that enable you to structure content and present it on the web. Knowledge of these languages will help you create web pages that are easy to read and appealing to users. This course lays the foundation for mastering these two popular web publishing technologies.

### Duration:

16 hours

### Course Objective:

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

- You will use HTML5 to create and design web pages
- You will create advanced web pages and test their validity
- Create a basic web page.
- Structure content.
- Apply styles.
- Work with tables.
- Navigate a website.
- Create web page layouts.
- Manage CSS.
- Test a website.
- Create advanced navigation.
- Incorporate metacontent and multimedia.
- Optimize HTML content to take advantage of HTML5 and CSS3 features.
- Write advanced CSS3 selectors and media queries.
- Use advanced background and border options introduced in CSS3.
- Use advanced text formatting options introduced in CSS3.
- Use HTML5 graphics and multimedia elements, including transforms, animation, audio, and video.
- Follow best practices to enable HTML content to be successfully processed by many different web browsers and machine readers

### Target Student:

This course is targeted at students who want to learn web design for their personal use or for business purposes, also for persons who understand the fundamentals of HTML and CSS and have used both

technologies to create basic web pages. It is aimed at individuals interested in using these technologies to create advanced web pages and to test their validity

### **Prerequisites:**

To take this course, students should be familiar with Windows or Mac operating systems, word processing skills, and the Internet.

### **Course Content:**

- 1. Lesson 1: Authoring Content in HTML**
  - Topic A: Web Development Standards
  - Topic B: Create an HTML Page
  - Topic C: Apply HTML Attributes
  
- 2. Lesson 2: Embedding and Linking Content**
  - Topic A: Embed Content within an HTML Page
  - Topic B: Link HTML Pages
  - Topic C: Create Image Maps
  
- 3. Lesson 3: Formatting Content with CSS**
  - Topic A: Apply Style Sheets to HTML
  - Topic B: Use CSS to Create Multiple Column Layouts
  
- 4. Lesson 4: Authoring Complex Content Structures**
  - Topic A: Author Table Content
  - Topic B: Construct and Format Forms
  
- 5. Lesson 5: Testing and Publishing HTML Content**
  - Topic A: Identify and Correct Structural and Compatibility Problems
  - Topic B: Make HTML Content Accessible
  - Topic C: Publish and Deploy Web Content
  
- 6. Lesson 6: Creating HTML5 Content**
  - Topic A: Develop Web Content to Follow Standards
  - Topic B: Update Legacy Web Content to Meet HTML5 Requirements
  
- 7. Lesson 7: Using Advanced Techniques to Select and Apply Styles**
  - Topic A: Use Advanced CSS Selectors
  - Topic B: Provide Alternate Layouts Based On Device Characteristics
  
- 8. Lesson 8: Using Advanced Background and Border Techniques**
  - Topic A: Use Advanced Techniques to Create Backgrounds
  - Topic B: Use Advanced Techniques to Create Borders



**9. Lesson 9: Incorporating Advanced Text Formats**

- Topic A: Use Web Fonts
- Topic B: Apply Advanced Text Styles

**10. Lesson 10: Adding Animation and Multimedia**

- Topic A: Use 2D Transforms
- Topic B: Use Animation Styles
- Topic C: Embed Audio and Video in a Web Page

**11. Lesson 11: Making HTML Readable and Accessible**

- Topic A: Support Various Browsers
- Topic B: Improve Markup to Benefit Human and Machine Readers