

# HTML5 WEB DEVELOPMENT WITH CSS3 AND JAVASCRIPT

Course number : 105

## Overview

HTML5 empowers you to enhance the User Experience (UX) across all devices — from legacy desktop browsers, to the latest smartphones and tablets. In this training course, you gain the skills to apply best practices for HTML markup, CSS styling, and JavaScript programming, as well as upgrade web applications to improve site performance, accessibility, and Search Engine Optimization (SEO).

## What you'll learn

- Leverage HTML5 to create modern, feature-rich sites
- Improve SEO/a11y with semantic elements and microdata
- Design professional, eye-catching presentations with CSS3
- Program rich internet applications with JavaScript APIs
- Enhance the user experience with drag-and-drop, Canvas, and SVG graphics, audio, and video

## Who should attend

### Pre-requis

- Experience developing web pages with HTML and CSS at the level of:
  - Course 470, Developing a Website
- JavaScript experience is required

## Outline

### Advancing Web Standards

- Testing HTML5 with BrowserStack
- Supporting legacy browsers with regressive enhancement

### Improving Usability, Accessibility and Search Engine Optimization (SEO)

## **Enhancing markup with new semantics**

- Upgrading pages to HTML5
- Sectioning content with structural elements
- Optimizing page rank with microdata

## **Helping users with form completion**

- Guiding input with autofocus and placeholder
- Validating data entry without scripting
- Preventing errors with constraints and pickers
- Customizing error messages with the Constraint API

## **Enriching Site Design with CSS3**

### **Manipulating borders and backgrounds**

- Vendor prefixes
- Rounded corners
- Resizable border images

### **Creating elaborate effects**

- Floating text and boxes with shadows and opacity
- Animating transformations and transitions
- Customizing animations with @keyframes

### **Customizing appearance across browsers**

- Installing downloadable fonts with @font-face
- Hiding values in custom data-\* attributes
- Adapting mobile layout with media queries
- Saving bandwidth with responsive images

## **Providing Relevant Content with AppCache, JavaScript and Geolocation**

### **Enabling users to work offline**

- Defining an application cache manifest
- Addressing caching caveats
- Comparing AppCache to Service Workers

### **Programming the geolocation API in JavaScript**

- Estimating user latitude and longitude
- Selecting content by proximity

## [Programming HTML5 Applications](#)

### **Applying modern JavaScript best practices**

- Leveraging anonymous functions
- Simplifying JavaScript development with jQuery

### **Persisting data with the Web Storage API**

- Saving name/value pairs in localStorage
- Storing Complex data in JSON format

### **Enhancing forms with rich text and JavaScript**

- Testing and supporting features with Modernizr
- Simplifying content formatting with WYSIWYG editors

### **Manipulating files with drag-and-drop**

- Handling events on draggables and drop targets
- Enabling drag-and-drop file upload with HTML5 programming interfaces

### **Exchanging message data with JavaScript APIs**

- Posting messages across windows
- Accessing external providers with Cross-Origin Resource Sharing (CORS) and XMLHttpRequest 2
- Pushing data with WebSockets
- Improving responsiveness with Web Workers

## [Drawing Dynamic Images](#)

### **Filling the Canvas element**

- Eliminating plugin dependencies with native graphics
- Charting with lines and rectangles
- Rendering text and embedding images

### **Reducing page size with SVG**

- Creating graphics with a text editor
- Substituting vector images for larger PNG files

## [Engaging Users with Multimedia Features](#)

### Enhancing a site with sound

- Embedding audio in a web page without plugins
- Entertaining users with natively-supported video
- Captioning video with Web Video Text Tracks (WebVTT)

## Schedule

Location	Dates	Status
Cotonou	Jan 22, 2018 - Jan 31, 2018 08:00 AM - 05:00 PM	Not available <a href="#">Register Now &gt;&gt;</a>
Toronto	Jan 01, 2018 - Jan 08, 2018 08:00 AM - 05:00 PM	Not available <a href="#">Register Now &gt;&gt;</a>

## Tuition

### IN CLASSROOM OR ONLINE PRIVATE TEAM TRAINING

**STANDARD \$3895**

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## FAQ

## Certification