

Training: CIW
Advanced HTML5 & CSS3 Specialist

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Digital materials	600 EUR	2 days
Traditional	CTAB Tablet	750 EUR	2 days
Distance learning	Digital materials	600 EUR	2 days
Distance learning	CTAB Tablet	600 EUR	2 days

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm
Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING TERMS

2019-09-02 | 2 days | Warszawa

TRAINING GOALS:

Advanced HTML5 And CSS3 Specialist is the first course in the [CIW Web And Mobile Design](#) series. This course teaches the essentials of **HTML5**, Cascading Style Sheets (**CSS3**) and **JavaScript**. These technologies, sometimes known as the "HTML5 Family" or the "Web development trifecta," can be used together to create Web pages that easily adapt to display on smartphones, tablets, gaming devices and smart TVs, as well as to traditional desktop computers. This course builds upon your manual coding skills to teach you how to develop Web documents using new elements, attributes and selectors introduced in **HTML5 (Hypertext Markup Language version 5)** and **CSS3 (Cascading Style Sheets version 3)**. You will create Web pages using the HTML5 structure elements, embed video and audio, and develop cross-browser user-input forms. You will use CSS3 to position and format content, and to create effects such as transformations, transitions and animation. You will also learn basic JavaScript coding, and use HTML5 APIs (application programming interfaces) to extend the functionality of Web pages with modern features such as geolocation, drag-and-drop, canvas and offline Web applications. In addition, you will learn techniques for code validation and testing, form creation, inline form field validation, and mobile design for browsers and apps, including **Responsive Web Design (RWD)**. All CIW courses offer Case Studies for class discussion about real-world skills applications and job related topics. Guided, step-by-step labs provide opportunities to practice new skills. You can challenge yourself and review your skills after each lesson in the Lesson Summary and Lesson Review sections. Additional skill reinforcement is provided in Activities, Optional Labs, Lesson Quizzes and a Course Assessment that are available from your instructor (for ILT training) or CIW Online (for self-study). This coursebook includes supplemental online material containing the lab files used in class. To practice the skills presented in class or to perform any labs that were not completed, refer to the Classroom Setup section for information about system requirements and using the lab files. The **CIW Advanced HTML5 And CSS3 Specialist** course prepares students to take the high-

stakes **CIW Advanced HTML5 And CSS3 Specialist certification exam.**

Skills Taught

- Demonstrate advanced uses of the canvas element.
- Implement JavaScript to create interactive pages.
- Validate HTML5 code.
- Identify ways to determine browser compatibility for a page or device.
- Implement HTML5 forms.
- Use CSS3 to shape content on the page.
- Design for mobile devices.
- Implement HTML5 APIs.
- Identify program flow issues in relation to JavaScript-based applications.
- Design pages for a cloud-based storefront.

Target Audience

Individuals preparing to enter or continue in the workforce fields of Web site development and design can benefit from the **CIW Advanced HTML5 And CSS3 Specialist** course and/or certification:

- High school students
- College students
- Technical/trade school students

Professionals working in Web site development and design fields for any industry can benefit from the CIW Advanced HTML5 And CSS3 Specialist course and/or certification:

- Web and graphic designers
- Web marketing professionals
- Mobile application developers
- Art/creative directors
- Advertising professionals
- Entrepreneurs Duration

CONSPECT:

- HTML5 Essentials
 - Introduction to HTML5 and CSS3
 - Migration to Mobile Devices
 - The Web Development Trifecta
 - The Evolution of HTML5

- HTML5 Structure Elements
- Validating HTML5 Code
- The video Element
- The audio Element
- HTML5 APIs
- Using Cascading Style Sheets (CSS) Technology
 - Cascading Style Sheets (CSS)
 - Style Guides
 - CSS and HTML
 - CSS Terms and Syntax
 - Applying CSS Styles
 - Page Layout with CSS
 - CSS Positioning Schemes
 - The CSS Box Model
- Introduction to CSS Version 3 (CSS3)
 - Introduction to CSS3
 - CSS3 Selectors and Properties
 - CSS3 Background Properties
 - CSS3 Border Properties
 - CSS3 Font Properties
 - CSS3 Text Effects
- Using Advanced CSS3 Techniques
 - Introduction to Advanced CSS3
 - Techniques
 - CSS3 2D and 3D Transformations
 - CSS3 Transitions
 - CSS3 Animations
 - CSS3 User Interfaces
 - Creating Menus and Buttons with CSS3
- Introduction to JavaScript
 - HTML5 and JavaScript
 - Introduction to Scripting
 - JavaScript Characteristics
 - JavaScript vs. Other Languages
 - Embedding JavaScript into HTML5 Documents
 - JavaScript and Common Programming Concepts

- Objects, Properties and Methods
- Variables
- Expressions and Operators
- JavaScript Events, Functions and Methods
 - User Events and JavaScript Event Handlers
 - Introduction to JavaScript Functions
 - Defining a Function
 - Calling a Function
 - Methods as Functions
 - Errors in JavaScript
- Using HTML5 APIs
 - Introduction to HTML5 APIs
 - Document Object Model (DOM)
 - Common HTML5 APIs
 - The Canvas API
 - The Offline AppCache API
 - The Geolocation API
 - The Drag-and-Drop API
 - The File API
 - The History API
 - Retrieving Data with XMLHttpRequest
 - Manipulating Data with jQuery
- Developing HTML5 Forms
 - Introduction to HTML5 Forms
 - Cross-Browser Compatible HTML5 Forms
 - HTML5 Form Input Types
 - New Form Elements in HTML5
 - HTML5 Global Attributes for Form Elements
- Completing, Submitting and Validating User Input Forms
 - Improving Forms with HTML5
 - HTML5 Attributes for the **form** Element
 - HTML5 Attributes for the **input** Element
 - Submitting Forms with the **button** Element
 - Concepts and Techniques for Validating User Input
 - Validating User Input with HTML5 Attributes
- Designing for Mobile Devices

- Introduction to Mobile Design
- Mobile Web Sites vs. Mobile Apps
- Designing Web Sites for Mobile Devices
- Page Layout for Mobile Devices
- Navigation and Hyperlinks for Mobile Devices
- Images and Mobile Design
- Validating and Testing Mobile Web Pages
- Responsive Web Design

REQUIREMENTS:

The **Advanced HTML5 And CSS3 Specialist** courseware teaches intermediate and advanced **HTML5 and CSS3** coding skills, as well as introductory **JavaScript**. Before taking this course, students should complete the [CIW Site Development Associate](#) course from the [CIW Web Foundations](#) series, or have equivalent basic HTML and CSS coding knowledge.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by CIW.

The **CIW Advanced HTML5 and CSS3 Specialist** course prepares candidates to take the **CIW Advanced HTML5 and CSS3 Specialist exam**, which, if passed, earns the individual the **CIW Advanced HTML5 and CSS3 Specialist certification**.

TRAINER:

CIW Certified Instructor.