

# uCertify

## Course Outline

**CIW APUS-Web Design Specialist**



22 Apr 2026

1. Pre-Assessment
2. Exercises, Quizzes, Flashcards & Glossary  
Number of Questions
3. Expert Instructor-Led Training
4. ADA Compliant & JAWS Compatible Platform
5. State of the Art Educator Tools
6. Award Winning Learning Platform (LMS)
7. Chapter & Lessons  
Syllabus  
Chapter 1: Markup Language and Site Development Essentials  
Chapter 2: HTML5 Coding  
Chapter 3: Cascading Style Sheets (CSS) and Graphical Elements  
Chapter 4: Hyperlinks  
Chapter 5: HTML Tables  
Chapter 6: Web Forms  
Chapter 7: Video, Audio and Image Techniques  
Chapter 8: Extending HTML  
Chapter 9: GUI HTML Editors and Mobile Web Sites  
Chapter 10: Web Site Development for Business  
Chapter 11: Appendix B: Web Developer Resources  
Chapter 12: Appendix C: Works Consulted  
Chapter 13: Appendix D: CSS Colors  
Chapter 14: Appendix E: HTML Frames  
Chapter 15: JavaScript and DHTML Fundamentals  
Chapter 16: Plug-Ins and Java Applets  
Chapter 17: HTTP Servers and Web Applications  
Chapter 18: Databases  
Chapter 19: Web Site Publishing and Maintenance

Videos and How To

8. Practice Test

Here's what you get

Features

9. Post-Assessment

1.  **Pre-Assessment**

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

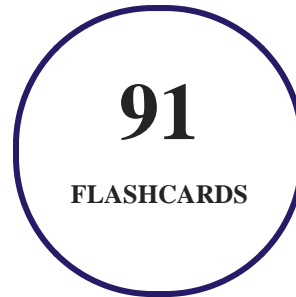
2.  **Quiz**

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



3.  **flashcards**

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



#### 4. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



#### 5. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

#### 6. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 7. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 8. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
  1. Best Postsecondary Learning Solution
- **2015**
  1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 9. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

### Syllabus

#### Chapter 1: Markup Language and Site Development Essentials

- Creating Web Pages
- Mobile and Cloud Issues
- Text Editors and Markup Languages
- Graphical User Interface (GUI) Editors
- History of Markup Languages
- The HTML Web Development Trifecta: HTML5, CSS and JavaScript
- Web Site Development Principles

- Hosting and Web Service Providers
- The Habitat for Humanity Web Site
- Optional Lab
- Lesson Summary

## Chapter 2: HTML5 Coding

- Introduction to Using HTML
- Elements and Markup Tags
- Document Structure Tags
- Web Site File Structure
- Preparing Your Development Environment
- Paragraph Formatting and Block-Level Elements
- Text-Level Elements
- Lists
- Good Coding Practice
- Optional Lab
- Lesson Summary

## Chapter 3: Cascading Style Sheets (CSS) and Graphical Elements

- Cascading Style Sheets (CSS)
- Separating Content in HTML
- Images in Web Pages
- HTML Entities
- Specifying Colors
- Page Colors and Backgrounds
- Specifying Font Information
- Web Design Issues
- Optional Lab
- Lesson Summary

## Chapter 4: Hyperlinks

- Introduction to Hyperlinks
- The Anchor Element
- Creating Local Hyperlinks
- Creating External Hyperlinks
- Using Images as Hyperlinks
- Creating Internal Links

- Managing Hyperlinks
- Optional Lab
- Lesson Summary

## Chapter 5: HTML Tables

- Introduction to HTML Tables
- CSS Properties for All Table Elements
- Table and Data Alignment Options
- Height and Width of Table Elements
- Column and Row Spanning
- HTML Tables vs. CSS Page Structure
- Lesson Summary

## Chapter 6: Web Forms

- Introduction to Web Forms
- Web Forms and CGI
- HTML5 and Forms
- Basic Tags for Creating Web Forms

- Web Form Fields
- Optional Lab
- Lesson Summary

## Chapter 7: Video, Audio and Image Techniques

- Introduction to Web Video, Audio and Image Techniques
- The <video> Element
- The <audio> Element
- Graphic Types
- Image Maps
- Image Transparency
- Image Interlacing
- Animation
- Mobile Device Issues with Animation and Plug-Ins
- Creating and Managing Images
- Lesson Summary

## Chapter 8: Extending HTML

- Extending HTML

- Server-Side and Client-Side Languages
- Server-Side Languages
- Client-Side Languages
- Dynamic HTML (DHTML)
- Document Object Model (DOM)
- HTML5 APIs
- Canvas
- Offline Web Application
- Geolocation
- Drag-and-Drop Functionality
- Web Application Frameworks
- Connecting to a Database
- Optional Lab
- Lesson Summary

## Chapter 9: GUI HTML Editors and Mobile Web Sites

- Introduction to GUI HTML Editors
- Types of GUI Editors

- GUI HTML Editor Functionality
- Creating Web Pages with a GUI Editor
- HTML Text Editors vs. GUI Editors
- Previewing Pages and Validating Code
- Web Site Publishing
- Developing Web Pages for Mobile Devices
- Mobile Apps vs. Mobile Web Sites
- Converting a Web site for Mobile Users
- Working with Web 2.0
- Optional Lab
- Lesson Summary

## Chapter 10: Web Site Development for Business

- Developing a Business Web Site
- E-Commerce Considerations
- Internet Marketing and Search Engine Optimization (SEO)
- E-Commerce Payment Technologies
- Working in a Global Environment

- Databases and Web Pages
- Optimizing the Impact of the Web Page
- Front-End Issues
- File Formats and Active Content
- Back-End Issues
- Bandwidth and Download Time
- Naming Web Page Files
- Optional Lab
- Lesson Summary

## Chapter 11: Appendix B: Web Developer Resources

- W3Schools
- HTML Goodies

## Chapter 12: Appendix C: Works Consulted

## Chapter 13: Appendix D: CSS Colors

## Chapter 14: Appendix E: HTML Frames

- Introduction to HTML Frames

- The <frameset> Tag
- The <frame> Tag
- The Frameset Document
- The <noframes> Tag
- Targeting Frames with Hyperlinks
- Specifying a Base Target
- Borders, Margins and Scrolling
- Inline Frames
- Appropriate Use of Frames
- Frames and Search Engine Optimization

## Chapter 15: JavaScript and DHTML Fundamentals

- Why Script?
- JavaScript and Common Programming Concepts
- What Is JavaScript?
- JavaScript vs. Other Languages
- Embedding JavaScript into X/HTML
- Using JavaScript to Communicate with the User

- JavaScript Functions
- Using JavaScript for Browser Detection
- Dynamic HTML (DHTML)
- Lesson Summary
- Optional lab

## Chapter 16: Plug-Ins and Java Applets

- Plug-In Technology
- Plug-In Installation
- Adobe Shockwave and Flash Players
- Adobe Reader
- RealNetworks RealPlayer
- Rich Media Content
- Creating a Downloadable File
- Introduction to Java
- Java Applets
- Applets and Animation
- Applet Authoring Tools and Resources

- Lesson Summary
- Optional Lab

## Chapter 17: HTTP Servers and Web Applications

- What Is an HTTP Server?
- Accessing Servers and Services
- Basic HTTP Server Administration
- Server-Side Technologies
- Web Servers and Cookies
- Enabling, Disabling and Deleting Cookies
- Setting Cookie Files
- XML and Web Applications
- Syndicated Feeds
- Lesson Summary
- Optional Lab

## Chapter 18: Databases

- Web Design and Databases

- Database Anatomy
- Database Queries
- Database Management System (DBMS)
- Connecting Web Pages to Databases
- Database Tools, Products and Programs
- Lesson Summary
- Optional Lab

## Chapter 19: Web Site Publishing and Maintenance

- Web Site Testing
- Web Site Publishing
- Web Site Hosting
- Web Publishing with an FTP Client
- Web Publishing with Expression Web
- Web Publishing with Dreamweaver
- Comparing Web Publishing Tools
- Maintaining Web Sites
- Web Server and Web Site Security

- Lesson Summary
- Optional lab

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

**18**  
VIDEOS

**01:16**  
HOURS

## 10. Practice Test

Here's what you get

**45**  
PRE-ASSESSMENTS  
QUESTIONS

**6**  
FULL LENGTH TESTS

**245**  
POST-ASSESSMENTS  
QUESTIONS

## Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 11. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

You can't stay away! Get

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