

# uCertify

## Course Outline

### IT Specialist HTML5 Application Development



04 Aug 2025

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: Introduction
    - Chapter 2: HTML Basics
    - Chapter 3: Media
    - Chapter 4: Working with HTML Forms
    - Chapter 5: Core CSS Concepts
    - Chapter 6: CSS and UI Content
    - Chapter 7: Graphics
    - Chapter 8: Code by using JavaScript
    - Chapter 9: Animation with JavaScript and Data
    - Chapter 10: APIs and Operating System Resources
    - Chapter 11: Manage the Application Life Cycle
- Videos and How To
8. Practice Test
  - Here's what you get
  - Features
9. Live labs
  - Lab Tasks
  - Here's what you get
10. 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.

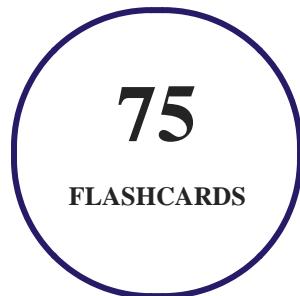
## 2. Quiz

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: Introduction

## Chapter 2: HTML Basics

- Basic Tenets
- Hyperlinks
- Formatting Elements
- What's New in HTML5?
- Organize Content
- Semantic HTML
- Summary

## Chapter 3: Media

- Add and Configure Images
- Canvas and Scalable Vector Graphics
- Media in HTML5
- Summary

## Chapter 4: Working with HTML Forms

- Forms
- Data Validation
- Summary

## Chapter 5: Core CSS Concepts

- Purpose and Benefits
- What's New in CSS3?
- CSS Syntax
- Including Style Sheet in a Page
- Inheritance and Overrides
- Content Flow
- The Float Property
- The Overlapping Elements
- The Position Property
- The Overflow Property
- Summary

## Chapter 6: CSS and UI Content

- User Interface
- Regions
- Summary

## Chapter 7: Graphics

- CSS and Graphics
- Summary

## Chapter 8: Code by using JavaScript

- JavaScript Introduction
- Update the UI with JavaScript
- Summary

## Chapter 9: Animation with JavaScript and Data

- Animations with JavaScript
- JavaScript and Data
- Summary

## Chapter 10: APIs and Operating System Resources

- Touch Interfaces and APIs
- Device and Operating System Resources
- Summary

## Chapter 11: Manage the Application Life Cycle

- Platform Fundamentals
- Manage Application States
- Debug and Test Touch-Based Apps
- Summary

## Videos and How To

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

**133**

VIDEOS

**06:39**

HOURS

## 10. Practice Test

## Here's what you get

60

PRE-ASSESSMENTS  
QUESTIONS

2

FULL LENGTH TESTS

60

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. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality

- No hardware costs

## Lab Tasks

### HTML Basics

- Creating Pages, Texts, and Links Using HTML
- Formatting Text in HTML and Using the Mark, Meter, and Progress Tags
- Organizing Content in HTML
- Utilizing the Section, Article, Aside, HR, Nav, Header, and Footer Tags

### Media

- Exploring Image, Canvas, and SVG Tags in HTML
- Using the Video and Input Tags

### Working with HTML Forms

- Exploring Input Fields and Attributes in HTML

### Core CSS Concepts

- Implementing the Inline, Internal, and External CSS Stylesheets
- Using Common Properties of the CSS3 User Interface
- Importing CSS, and Implementing and Overriding Style Inheritance
- Using Inline Flow vs. Block Flow in CSS and Float Properties
- Implementing CSS Overlapping and Positioning
- Using Positioned Floats
- Using Overflow Properties

### CSS and UI Content

- Applying the Flowing Content through Containers Dynamically and Implementing Regions
- Implementing CSS Flexbox, Scaling, Ordering, and Arranging Content
- Using Grid Layouts and Templates
- Implementing CSS Columns and Hyphenations

## Graphics

- Implementing Transparency and Gradient
- Creating CSS Animations
- Implementing Skews
- Implementing Rotations
- Implementing CSS Transitions
- Using the Web Open Font Format
- Creating Rounded Corners and Shadows Using CSS
- Implementing Graphical Effects
- Using Nested Div Elements and Implementing SVG Filter Effects
- Drawing Graphics via Scripting Using the Canvas Element and Implementing the CSS Canvas Rotate Method

## Code by using JavaScript

- Using jQuery and Other Third-Party Libraries
- Using the switch Statement
- Writing a Basic JavaScript Program
- Using Events
- Using Function Expression Stored in a Variable and Calling a Function
- Using the break and continue Statement
- Using for, while, and do-while Loops
- Using Operators, if Statement, and if-else Statement
- Using the insertBefore() Method to Add Elements
- Showing and Hiding Elements
- Using JavaScript for Animations
- Dynamically Adding Elements to Pages
- Finding HTML Elements

## Animation with JavaScript and Data

- Animating Image
- Manipulating a Canvas
- Using the setTimeout and setInterval Methods in Animations
- Using the Form and Test Validations
- Loading and Saving Files
- Transmiting and Parsing Complex Objects
- Sending and Receiving Data in HTML
- Using AppCache, Data Types, and Local Storage

## APIs and Operating System Resources

- Using File API
- Getting the Geolocation of a Device
- Using WebSocket
- Using Gestures and Responses
- Using the Local and Session Storage
- Using In-Memory Resource Methods

## Here's what you get

55

LIVE LABS

55

VIDEO TUTORIALS

02:01

HOURS

## 12. 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  
started with uCertify



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