CIW Advanced HTML5 And CSS3 Specialist Objectives and Locations

The CIW Advanced HTML5 And CSS3 Specialist courseware and this appendix are designed to help students prepare for the CIW Advanced HTML5 And CSS3 Specialist exam (1D0-620). Students can use this appendix as a study guide to locate content within the CIW Advanced HTML5 And CSS3 Specialist course that corresponds to the specific skills objectives of the CIW Advanced HTML5 And CSS3 Specialist program. You can register for the CIW Advanced HTML5 And CSS3 Specialist exam at any Prometric (www.prometric.com) or VUE (www.vue.com) testing center. If your learning institution is a CIW Certification Testing Center (CTC) participant, then your instructor may be able to deliver CIW certification exams directly in your classroom. For more information about the CIW Advanced HTML5 And CSS3 Specialist certification or any other CIW certification, visit www.CIWcertified.com.

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
Domain 1: HTML5 Essentials	
1.1	Lesson 1: HTML5 Essentials
Consider HTML5 development skills you can apply to both traditional and non-traditional delivery platforms,	- Mobile Websites vs. Mobile Apps
including mobile apps.	- App Development
1.2	Lesson 1: HTML5 Essentials
Compare "apps" to mobile Websites.	- Mobile Websites vs. Mobile Apps
1.3 Identify the Web development trifecta and explain its significance.	Lesson 1: HTML5 Essentials
	- The Web Development Trifecta
1.4	Lesson 1: HTML5 Essentials
Explain the evolution of HTML and its relevance to modern design techniques.	- The Evolution of HTML5
1.5	Lesson 1: HTML5 Essentials
Explain the importance of universal markup creation.	- Universal Markup Creation
1.6 Create and deploy HTML5 structure tags.	Lesson 1: HTML5 Essentials
	- HTML5 Structure Elements
	- Lab 1-1: Structuring and validating a Webpage
1.7	Lesson 1: HTML5 Essentials
Perform HTML5 code validation, including mobile webpages, which includes explaining the practical value of code validation and listing the steps to validate HTML5 code.	- Validating HTML5 Code
	- Lab 1-1: Structuring and validating a Webpage

Lesson 1: HTML5 Essentials HTML5 Graphics Lab 1-2: Embedding video with the HTML5 video element Lab 1-2: Embedding video with the HTML5 video element Lab 1-3: Embedding video with the HTML5 video element Lab 1-3: Embedding video with the HTML5 video element Lab 1-3: Embedding audio video	Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
audio, embed and canvas). 1- HTMLS Graphics - Lab 1-2: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Lab 1-3: Embedding audio with the HTML5 < video> element - Lab 1-3: Lab		Lesson 1: HTML5 Essentials
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Define common elements of HTML5 application programming interfaces (APIs). 1.10 Create appropriate navigation elements and hyperlinks for mobile Webpages. 1.11 Use images appropriately on mobile Webpages. Domain 2: Cascading Style Sheets (CSS) Technology and CSS Version 3 (CSS3) 2.1 Essplain the function and purpose of the Cascading Style Sheets (CSS) technology Sheets (CSS) technology. 2.2 2.3 Define common CSS terms and syntax. 2.3 Define common CSS terms and syntax. 2.4 Apply CSS styles to format pages. 2.5 Develop and apply page layouts with CSS. Develop and apply page layouts with CSS. 2.6 Use the CSS Box Model. 2.7 Describe general concerns for developing Web documents that will be delivered on mobile devices. Lesson 1: Introduction to Cascading Style Sheets (CSS) Technology Cascading Style Sheets (CSS) Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology CSS Terms and Syntax Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology CSS Terms and Syntax Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology Applying CSS styles Lab 2-1: Formatting text with CSS Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology Page Layout with CSS Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology Page Layout with CSS Lab 2-3: Laying out a page's structure using CSS Lab 2-4: Positioning images relative to text using CSS Lab 2-2: Modifying elements using CSS margins, borders and padding 2.7 Describe general concerns for developing Web documents that will be delivered on mobile devices.		
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Describe general concerns for developing Web documents that will be delivered on mobile devices. - Designing Websites for Mobile Devices		
- Designing Websites for Mobile Devices	Describe general concerns for developing Web	
- Lab 2-5: Modifying a site for mobile users	documents that will be delivered on mobile devices.	- Designing Websites for Mobile Devices
		- Lab 2-5: Modifying a site for mobile users

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
2.8 Define common CSS positioning schemes and apply	Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology
document flow.	- Page Layout with CSS
	- Lab 2-3: Laying out a page's structure using CSS
	- Lab 2-4: Positioning images relative to text using CSS
2.9 Develop appropriate page layouts for use on mobile	Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology
devices.	- Designing Websites for Mobile Devices
	- Lab 2-5: Modifying a site for mobile users
2.10	Lesson 3: Using CSS Version 3 (CSS3)
List the features added to CSS functionality in CSS version 3 (CSS3).	- Introduction to CSS3
2.11	Lesson 3: Using CSS Version 3 (CSS3)
Apply common CSS3 properties and selectors.	- CSS3 Selectors and Properties
	- Lab 3-1: Using CSS3 selectors
2.12	Lesson 3: Using CSS Version 3 (CSS3)
Apply backgrounds, borders, fonts and text effects with CSS3.	- CSS3 Background Properties
	- Lab 3-2: Adding CSS3 backgrounds
	- CSS3 Border Properties
	- Lab 3-3: Creating buttons and shadows with the CSS3 border properties
	- CSS3 Font Properties
	- CSS3 Text Effects
	- Lab 3-4: Using CSS3 fonts and text effects
2.13 Determine cross-browser compatibility for traditional	Lesson 3: Using CSS Version 3 (CSS3)
and mobile Webpages.	- Cross-Browser Compatibility
2.14	Lesson 3: Using CSS Version 3 (CSS3)
Describe essential Responsive Web Design (RWD) techniques and principles.	- Responsive Web Design
Domain 3: Using Advanced CSS3 Techniques	
3.1 Apply 2D and 3D transformations with CSS3.	Lesson 4: Using Advanced CSS3 Techniques
	- CSS3 2D and 3D Transformations
	- Lab 4-1: Creating 2D and 3D transformations with CSS3
3.2	Lesson 4: Using Advanced CSS3 Techniques
Apply transitions and animations with CSS3.	- CSS3 Transitions
	- Lab 4-2: Using CSS3 transitions
	- CSS3 Animations
	- Lab 4-3: Creating CSS3 animations

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
3.3 Create accessible user interfaces with CSS3.	Lesson 4: Using Advanced CSS3 Techniques
	- CSS3 User Interfaces
	- Lab 4-4: Using the CSS3 resize property
3.4	Lesson 4: Using Advanced CSS3 Techniques
Create menus and buttons with CSS3.	- Creating Menus and Buttons with CSS3
	- Lab 4-5: Creating a CSS menu
3.5	Lesson 4: Using Advanced CSS3 Techniques
Create transparencies and overlays with CSS3.	- Creating Menus and Buttons with CSS3
	- Lab 4-5: Creating a CSS menu
3.6	Lesson 4: Using Advanced CSS3 Techniques
Explain SASS and why it is an extension to CSS	- SASS
Domain 4: Introduction to JavaScript	
4.1	Lesson 5: Introduction to JavaScript
Define scripting languages and explain their functionality in Web development.	- Introduction to Scripting
4.2 Define JavaScript, describe its main features and uses,	Lesson 5: Introduction to JavaScript
and list characteristics of JavaScript that affect Web	- Introduction to Scripting
developers and design.	- JavaScript Characteristics
4.3	Lesson 5: Introduction to JavaScript
Compare JavaScript to other languages used in Web development.	- JavaScript vs. Other Languages
4.4	Lesson 5: Introduction to JavaScript
Embed JavaScript code into HTML5 documents.	- Ways of Embedding JavaScript into HTML5 Documents
4.5	Lesson 5: Introduction to JavaScript
Define the roles of JavaScript objects, properties and methods in scripting and programming.	- Objects, Properties and Methods
	- Lab 5-1: Using the JavaScript alert() method
4.6	Lesson 5: Introduction to JavaScript
Define the role of JavaScript variables in scripting and programming.	- JavaScript and Common Programming Concepts
	- Lab 5-2: Using the JavaScript prompt() method
	- Lab 5-3: Using the JavaScript document.write() method
4.7	Lesson 5: Introduction to JavaScript
Define the role of JavaScript expressions and operators in scripting and programming(including conditional	- Expressions and Operators
statements, arrays, loops, scope isolation and iterators).	- Lab 5-2: Using the JavaScript prompt() method
	- Lab 5-3: Using the JavaScript document.write() method
	- Conditional Statements
	- Arrays
	- Loops
	- Scope Isolation
	- Iterators
	- Regex

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
Domain 5: JavaScript Events, Functions and Methods	S
5.1	Lesson 6: JavaScript Events, Functions and Methods
Define user events, and identify and use JavaScript event handlers.	- User Events and JavaScript Event Handlers
5.2	Lesson 6: JavaScript Events, Functions and Methods
Describe the role of functions in JavaScript development.	- Introduction to JavaScript Functions
5.3	Lesson 6: JavaScript Events, Functions and Methods
Use JavaScript code to define functions.	- Defining a Function
	- Lab 6-1: Creating a user-defined function in JavaScript
	- Lab 6-2: Using functions, arguments and return values in JavaScript
	- Lab 6-3: Calling a function from within another function in JavaScript
5.4	Lesson 6: JavaScript Events, Functions and Methods
Use JavaScript code to call functions.	- Defining a Function
	- Lab 6-1: Creating a user-defined function in JavaScript
	- Calling a Function
	- Lab 6-2: Using functions, arguments and return values in JavaScript
	- Lab 6-3: Calling a function from within another function in JavaScript
5.5	Lesson 6: JavaScript Events, Functions and Methods
Use methods as functions in JavaScript code.	- Methods as Functions
5.6 Use functions including promises, modules, Async,	Lesson 6: JavaScript Events, Functions and Methods
await and closures.	- Promises
	- Modules
	- Async/ Await & Closures
	- AJAX and JSON
5.7	Lesson 6: JavaScript Events, Functions and Methods
Identify common errors in JavaScript.	- Methods as Functions
	- Errors In JavaScript
Domain 6: Using HTML5 APIs	
6.1	Lesson 7: Using HTML5 APIs
Define the Document Object Model (DOM).	- Document Object Model (DOM)
6.2	Lesson 7: Using HTML5 APIs
Define application programming interface (API), and list the common HTML5 APIs.	- Common HTML5 APIs
6.3	Lesson 7: Using HTML5 APIs
Use the HTML5 Canvas API for advanced techniques.	- The Canvas API
	- Lab 7-1: Using the HTML5 Canvas API

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
6.4	Lesson 7: Using HTML5 APIs
Use the HTML5 Geolocation API to obtain geographic information about a user.	- The Geolocation API
mormanon about a doct.	- Lab 7-3: Using the Geolocation API to obtain geographical information
6.5	Lesson 7: Using HTML5 APIs
Create drag-and-drop Web pages using the HTML5 Drag-and-Drop API.	- The Drag-and-Drop API
	- Lab 7-4: Adding drag-and-drop elements to a Webpage with HTML5
6.6	Lesson 7: Using HTML5 APIs
Use the HTML5 File API to interact with files.	- The File API
	- Lab 7-5: Using the HTML5 File API
6.7	Lesson 7: Using HTML5 APIs
Use the HTML5 History API to manipulate a browser's history.	- The History API
6.8	Lesson 7: Using HTML5 APIs
Retrieve and manipulate HTML5 data using XMLHttpRequest and jQuery.	- Retrieving Data with XMLHttpRequest
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Domain 7: Developing HTML5 Forms	
7.1	Lesson 8: Developing HTML5 Forms
Describe the purpose and functionality of HTML5 forms.	- Introduction to HTML5 Forms
	- HTML5 Form Input Types
7.2	Lesson 8: Developing HTML5 Forms
Develop cross-browser compatible forms using HTML5.	- Cross-Browser Compatible HTML5 Forms
	- HTML5 Form Input Types
7.3	Lesson 8: Developing HTML5 Forms
List the new form input types available in HTML5.	- HTML5 Form Input Types
	- Lab 8-1: Using new HTML5 input types
7.4	Lesson 8: Developing HTML5 Forms
Use the HTML5 <datalist> element.</datalist>	- New Form Elements in HTML5
	- Lab 8-2: Using the HTML5 <datalist> element</datalist>
7.5	Lesson 8: Developing HTML5 Forms
Explain the function of the HTML5 <output> element.</output>	- New Form Elements in HTML5
7.6 Use HTML5 global attributes for HTML form elements including <fieldset>, <legend>, <label>, <select> and <textarea>.</td><td>Lesson 8: Developing HTML5 Forms</td></tr><tr><td>- HTML5 Global Attributes for Form Elements</td></tr><tr><td>- Lab 8-3: Using the <fieldset> and <legend> elements</td></tr><tr><td></td><td>- Lab 8-4: Using the <textarea> element with the
placeholder attribute</td></tr></tbody></table></textarea></select></label></legend></fieldset>	

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
Domain 8: Completing, Submitting and Validating Us	er Input Forms
8.1 Use HTML5 attributes for completing and submitting	Lesson 9: Completing, Submitting and Validating User Input Forms
forms, including new attributes for the <form>, <input/> and <button> elements.</button></form>	- HTML5 Attributes for the <form> Element</form>
	- Lab 9-1: Using the HTML5 <i>autocomplete</i> attribute with <form></form>
	- HTML5 Attributes for the <input/> Element
	- Lab 9-2: Using the HTML5 <i>autofocus</i> attribute with <input/>
	- Submitting Forms with the <button> Element</button>
	- Lab 9-3: Using the <button> element to submit forms</button>
8.2 Describe the general concepts and techniques used to	Lesson 9: Completing, Submitting and Validating User Input Forms
validate user input from forms.	- Concepts and Techniques for Validating User Input
8.3 Validate user input from forms using HTML5 attributes.	Lesson 9: Completing, Submitting and Validating User Input Forms
	- Validating User Input with HTML5 Attributes
	- Lab 9-4: Using the HTML5 <i>required</i> attribute
	- Lab 9-5: Using the HTML5 <i>pattern</i> attribute
	- Lab 9-6: Using the <i>pattern</i> attribute with HTML input types
8.4 Validate user input from forms using JavaScript.	Lesson 9: Completing, Submitting and Validating User Input Forms
	- Validating User Input with JavaScript
Domain 9: Copyright, Ethics and Legal Consideration	s
9.1 Explain the importance of copyright rules in coding	Lesson 10: Copyright, Ethics and Legal Considerations
practices	- Copyright Laws in Coding, Really?
9.2 Describe accessibility compliance (including ADA and	Lesson 10: Copyright, Ethics and Legal Considerations
Section 508) responsibilities in Website development	- Why Accessibility?
	- Lab 10-1: Applying compliance requirements to your Website
9.3 Implement accessibility compliance in Website coding	Lesson 10: Copyright, Ethics and Legal Considerations
	- Lab 10-1: Applying compliance requirements to your Website
9.4 Identify appropriate netiquette and cultural references as it applies to Website design.	Lesson 10: Copyright, Ethics and Legal Considerations
	- Netiquette and Cultural Considerations
	- Lab 10-2: Identify sites that incorporate proper netiquette habits

Advanced HTML5 And CSS3 Specialist Objective	Advanced HTML5 And CSS3 Specialist Courseware Lesson(s) and Section(s)
9.5 Differentiate between ethical and legal responsibilities	Lesson 10: Copyright, Ethics and Legal Considerations
	- Netiquette and Cultural Considerations
	- How Does Ethics Effect Coding?
9.6 Compare local and international privacy laws (e.g.,	Lesson 10: Copyright, Ethics and Legal Considerations
HIPPA, GDPR, etc.) and Website development responsibilities.	- Why Consider Global Laws?
	- Lab 10-3: Users privacy and your Website responsibilities
9.7 Consider appropriate security standards as it applies to	Lesson 10: Copyright, Ethics and Legal Considerations
Website design to protect personal and business information.	- Security Standards
9.8 Formulate standards to apply ethical reasoning and	Lesson 10: Copyright, Ethics and Legal Considerations
judgment on issues affected by technological advances (e.g., coding, hacking, spying).	- How Does Ethics Effect Coding?
Domain 10: Project Management and Critical Thinkin	ng
10.1 Demonstrate Project Management strategies and tasks	Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology
for Website development.	- Designing Websites for Mobile Devices
10.2 Compare and contrast various management styles in	Lesson 10: Copyright, Ethics and Legal Considerations
technological organizations.	- How Does Ethics Effect Coding?
10.3 Identify a work-based learning experience in a local	Lesson 2: Introduction to Cascading Style Sheets (CSS) Technology
business environment.	- Designing Websites for Mobile Devices
10.4 Develop appropriate personal standards for leadership techniques, customer service strategies and personal ethics.	Lesson 9: Completing, Submitting and Validating User Input Forms
	- Validating User Input with JavaScript
10.5	Lesson 1: HTML5 Essentials
Identify various potential website issues, and troubleshoot their causes and symptoms. (including: conformance to standards, site rendering, audience interaction and validation)	- Validating HTML5 Code
10.6 Solve problems using critical thinking, creativity and innovation skills.	Lesson 1: HTML5 Essentials
	- Validating HTML5 Code
10.7 Discuss the importance of time management, both	Lesson 10: Copyright, Ethics and Legal Considerations
professionally and personally.	- Netiquette and Cultural Considerations