Exam: **HTML/CSS Specialist**

Exam Link: https://knowledge-pillars.com/html-and-css-coding-specialist-certification/

Course: Web Design

TEKS Code & Standard	TEKS Description	Corresponding HTML-CSS Coding Specialist Objective(s)	Alignment Description
§127.685(c)(1)(A)	Identify and describe the function of a web server and its role in web hosting.	Unit 1 – HTML Fundamentals and Related Theory	Covers web fundamentals, including server-side role in rendering HTML pages.
§127.685(c)(2)(A)	Apply design and web programming terminology appropriately.	Unit 1 – HTML Fundamentals and Related Theory	Terminology from TEKS is addressed in HTML module with tag and doc language.
§127.685(c)(2)(B)	Demonstrate knowledge of HTML and CSS to create web pages.	Unit 2 – Constructing Webpages with HTML	Students implement core HTML/CSS to create and structure web content.
§127.685(c)(2)(C)	Use HTML and CSS to create semantic structure and layout.	Unit 3 – CSS Fundamentals	Semantic tags and responsive layout principles align to HTML/CSS techniques.
§127.685(c)(3)(A)	Apply web design best practices including navigation, hierarchy, and readability.	Unit 5 – Advanced HTML/CSS Features: Tables and Forms	Design practices such as user-centered navigation and readability are embedded in layout activities.
§127.685(c)(3)(C)	Use design principles to create visually appealing web pages.	Unit 5 – Advanced HTML/CSS Features: Layout and Semantic Tags	TEKS-aligned page design using spacing, alignment, and visual hierarchy.
§127.685(c)(4)(A)	Develop and implement a website using web authoring tools.	Unit 4 – Combining HTML with CSS	Covers linking stylesheets and applying layout techniques using CSS.
§127.685(c)(5)(A)	Identify and resolve errors using validation tools and browser testing.	Unit 5 – Advanced HTML/CSS Features: ARIA, Accessibility, Validation	Students validate HTML/CSS and test on various devices and browsers.
§127.685(c)(5)(B)	Demonstrate knowledge of website maintenance and updating content.	Unit 5 – Advanced HTML/CSS Features: Forms and Updates	Maintenance tasks such as form edits, image refresh, and styling updates are addressed.
§127.685(c)(6)(A)	Understand the importance of website security and implement basic security measures.	Unit 5 – Advanced HTML/CSS Features: Security, ARIA attributes	Security and accessibility best practices such as ARIA are included in final unit.

Course: Advanced User Experience

TEKS Code & Standard	TEKS Description	Corresponding HTML-CSS Coding Specialist Objective(s)	Alignment Description
§127.792(c)(1)(A)	Identify job opportunities in UX and assess individual skills and abilities.	Unit 1 – HTML Fundamentals: Understanding meta tags and head content	Students explore HTML meta info as part of understanding digital content structure tied to job functions.
§127.792(c)(1)(C)	Achieve at least one UX professional certification and build resumes and portfolios.	Unit 5 – Advanced HTML/CSS Features: Forms, Layouts, Multimedia	Students build certification-worthy projects and portfolios using HTML forms and layouts.
§127.792(c)(3)(A)	Apply UX design conceptual foundations to real-world scenarios.	Unit 3 – CSS Fundamentals: Selectors, Styling, Box Model	Foundational CSS knowledge aligns to applied UX design with layout and spacing decisions.
§127.792(c)(4)(B)	Analyze testing data to refine UX designs.	Unit 5 – Advanced HTML/CSS Features: Accessibility and ARIA	ARIA and accessibility features are used to optimize UX testing feedback and refinement.
§127.792(c)(5)(A)	Create visual designs that effectively communicate ideas.	Unit 4 – Combining HTML with CSS: Inheritance, Display, Layout	Students use CSS and HTML layout techniques to communicate design goals.
§127.792(c)(5)(B)	Employ storytelling techniques to enhance user engagement.	Unit 5 – Advanced HTML/CSS Features: Animations, Transitions	Transitions and animations support visual storytelling in digital UX products.
§127.792(c)(6)(A)	Develop and deliver presentations to convey UX design concepts.	Unit 2 – Constructing Webpages: Content Organization, Tables, Lists	Presentation skills map to how web content and site organization is structured and shown to users.

Course:Web Game Development

TEKS Code & Standard	TEKS Description	Corresponding HTML-CSS Coding Specialist Objective(s)	Alignment Description
§127.767(c)(2)(A)	Demonstrate knowledge of HTML and CSS for structuring and designing webpages.	Unit 1 – HTML Fundamentals and Related Theory	HTML structural knowledge directly maps to web game interface layout setup.
§127.767(c)(2)(B)	Use semantic elements to enhance web accessibility.	Unit 5 – Advanced HTML/CSS Features: ARIA and Accessibility	ARIA attributes and semantic elements enhance accessibility in user interface design.
§127.767(c)(3)(B)	Apply best practices in visual layout and design.	Unit 3 – CSS Fundamentals: Box Model, Visual Styling	Box model, colors, and fonts support game UI layout and feedback.
§127.767(c)(4)(A)	Construct interactive elements using forms and multimedia.	Unit 5 – Advanced HTML/CSS Features: Forms and Multimedia	Forms and media enable game control panels, input, and user engagement.
§127.767(c)(5)(C)	Incorporate testing and debugging techniques for user feedback.	Unit 4 – Combining HTML with CSS: Troubleshooting and Debugging	Students use validation tools and inspect elements to resolve layout and logic issues.
§127.767(c)(6)(A)	Develop responsive web content that adapts across devices.	Unit 5 – Advanced HTML/CSS Features: Flexbox and Grid	Responsive design supports cross-device gaming experiences.
§127.767(c)(7)(A)	Demonstrate knowledge of digital citizenship including legal and ethical behaviors.	Unit 1 – HTML Fundamentals: Head content, Copyright Awareness	Intro unit covers digital conduct and the legal use of code and media assets.