

HTML5 PROGRAMMING

This test measures programmer proficiency in the use of the HTML markup language to create Web pages based upon the HTML5 revision of the HTML standard. It covers understanding of stable HTML5 elements used computer Web browsers as well as mobile browsers that support HTML5. Essential Web page technologies used in conjunction with HTML5, such as CSS3 and JavaScript, are also covered. The Secure Evaluation Mode and Remote versions of this test will contain a minimum of 54 questions and will require a typical time of 64 minutes. The Secure Interview Mode and QwikChek versions will provide as many questions as the test taker can answer within an approximate 40 minute time limit.

Following is a description of each sub-topic on the test:

HTML5 Syntax and Semantics tests knowledge of the DOCTYPE element, character encoding and use of HTML5 syntax and semantics to build valid HTML5 documents.

CSS3 Styling demonstrates understanding of how CSS3 selectors, combinators and pseudo classes/elements can be used to apply styles to selected elements within the HTML5 document.

HTML5 Document Types and Structure tests knowledge of the building of valid HTML5 documents using the metadata options that can be set within the document, and the semantic elements now available.

HTML5 Images and External Documents determines knowledge of using images and other external content within an HTML5 document, and using external CSS3 and JavaScript files.

HTML5 Form Elements tests knowledge of the HTML5 Form elements and validation of data input by the user.

HTML5 APIs measures knowledge of using the HTML5 APIs including Geolocation, Web Workers, Drag and Drop, and Server Sent Events.

HTML5 Multimedia assesses knowledge of the standards added to HTML5 for playing Audio and Video files.

HTML5 Graphics tests knowledge and use of the Canvas element and inline SVG features available in HTML5, and comparisons between the two graphics mechanisms.

HTML5 Local Storage evaluates knowledge of checking for the availability of, and reading and writing to the Local Storage, Session Storage, and Client-Side Database facilities of HTML5.

HTML5 Application Cache analyzes knowledge of working with the offline application HTTP cache.

HTML5 Document Security tests knowledge of the Document security features of HTML5, including the use of the sandbox attribute.

HTML5 DOM measures knowledge of the Document Object Model interface, and manipulating the DOM using JavaScript.

HTML5 Tables, Lists and Links tests knowledge of the use of tables, ordered and unordered lists, Links elements within HTML5.

HTML5 Browser Support determines knowledge of how to validate HTML5 documents, and the checking for HTML5 features in the browser.

Using JavaScript tests understanding of the core features of JavaScript used in conjunction with HTML5, including basic syntax and operators.

CSS3 Media Types, Layouts and Effects evaluates knowledge of the HTML5 @media rule that allows a website to have different layouts for different media types, such as screen, print and phone, basic page layouts elements, and various effects and transitions.

JavaScript Libraries tests knowledge of the basic features of the most common JavaScript libraries used in conjunction with HTML5 including jQuery, NodeJS, Modernizr, AngularJS, and KnockoutJS.

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CSS3 Attributes and Properties demonstrates understanding of CSS3 properties and their use in creating the HTML5 page layout, and applying styles to the page.