

Advanced HTML5 And CSS3 Specialist

Exam 1D0-620



Domain 1: HTML5 Essentials

- 1.1 Consider HTML5 development skills you can apply to both traditional and non-traditional delivery platforms, including mobile apps.
- 1.2 Identify the Web development trifecta and explain its significance.
- 1.3 Explain the evolution of HTML and its relevance to modern design techniques.
- 1.4 Create and deploy HTML5 structure tags.
- 1.5 Perform HTML5 code validation, which includes explaining the practical value of code validation and listing the steps to validate HTML5 code.
- 1.6 Explain the importance of universal markup creation.
- 1.7 Apply the HTML5 <video> element appropriately.
- 1.8 Use the HTML5 <audio> element.
- 1.9 Define common elements of HTML5 application programming interfaces (APIs).

Domain 2: Using Cascading Style Sheets (CSS) Technology

- 2.1 Explain the function and purpose of the Cascading Style Sheets (CSS) technology.
- 2.2 Explain the importance of using style guides when designing sites and documents.
- 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.
- 2.6 Use CSS to position content and apply document flow.
- 2.7 Define common CSS positioning schemes.
- 2.8 Use the CSS Box Model.

Domain 3: Introduction to CSS Version 3 (CSS3)

- 3.1 List the features added to CSS functionality in CSS version 3 (CSS3).
- 3.2 Apply common CSS3 properties and selectors.
- 3.3 Apply backgrounds and borders with CSS3.
- 3.4 Apply fonts and text effects with CSS3.

Domain 4: Using Advanced CSS3 Techniques

- 4.1 Apply 2D and 3D transformations with CSS3.
- 4.2 Apply transitions and animations with CSS3.
- 4.3 Create accessible user interfaces with CSS3.
- 4.4 Create menus and buttons with CSS3.
- 4.5 Create transparencies and overlays with CSS3.

Domain 5: Introduction to JavaScript

- 5.1 Define scripting languages and explain their functionality in Web development.
- 5.2 Define JavaScript, describe its main features and uses, and list characteristics of JavaScript that affect Web developers and design.
- 5.3 Compare JavaScript to other languages used in Web development.
- 5.4 Embed JavaScript code into HTML5 documents.
- 5.5 Define the roles of JavaScript objects, properties and methods in scripting and programming.
- 5.6 Define the role of JavaScript variables in scripting and programming.
- 5.7 Define the role of JavaScript expressions and operators in scripting and programming.

Domain 6: JavaScript Events, Functions and Methods

- 6.1 Define user events, and identify and use JavaScript event handlers.
- 6.2 Describe the role of functions in JavaScript development.
- 6.3 Use JavaScript code to define functions.
- 6.4 Use JavaScript code to call functions.
- 6.5 Use methods as functions in JavaScript code.
- 6.6 Identify common errors in JavaScript.

Domain 7: Using HTML5 APIs

- 7.1 Define the Document Object Model (DOM).
- 7.2 Define application programming interface (API), and list the common HTML5 APIs.
- 7.3 Use the HTML5 Canvas API for advanced techniques.
- 7.4 Develop offline Web applications using the HTML5 AppCache API.
- 7.5 Use the HTML5 Geolocation API to obtain geographic information about a user.

- 7.6 Create drag-and-drop Web pages using the HTML5 Drag-and-Drop API.
- 7.7 Use the HTML5 File API to interact with files.
- 7.8 Use the HTML5 History API to manipulate a browser's history.
- 7.9 Retrieve and manipulate HTML5 data using XMLHttpRequest and jQuery.

Domain 8: Developing HTML5 Forms

- 8.1 Describe the purpose and functionality of HTML5 forms.
- 8.2 Develop cross-browser compatible forms using HTML5.
- 8.3 List the new form input types available in HTML5.
- 8.4 Use the HTML5 <datalist> element.
- 8.5 Explain the function of the HTML5 <keygen> element.
- 8.6 Explain the function of the HTML5 <output> element.
- 8.7 Use HTML5 global attributes for HTML form elements including <fieldset>, <legend>, <label>, <select> and <textarea>.

Domain 9: Completing, Submitting and Validating User Input Forms

- 9.1 Use HTML5 attributes for completing and submitting forms, including new attributes for the <form>, <input> and <button> elements.
- 9.2 Describe general concepts and techniques used to validate user input from forms.
- 9.3 Validate user input from forms using HTML5 attributes.
- 9.4 Validate user input from forms using JavaScript.

Domain 10: Designing for Mobile Devices

- 10.1 Compare "apps" to mobile Web sites.
- 10.2 Describe general concerns for developing Web documents that will be delivered on mobile devices.
- 10.3 Develop appropriate page layouts for use on mobile devices.
- 10.4 Create appropriate navigation elements and hyperlinks for mobile Web pages.
- 10.5 Use images appropriately on mobile Web pages.
- 10.6 Validate and test mobile Web pages.
- 10.7 Determine cross-browser compatibility for traditional and mobile Web pages.
- 10.8 Describe essential Responsive Web Design (RWD) techniques and principles.