

Foundations of Web Design

Explain and apply appropriate web design language and terminology. [CIS.HS.9.1](#)

- a** Describe the principles and goals of website design. [CIS.HS.9.1A](#)
- b** Describe the principles and goals of responsive design. [CIS.HS.9.1B](#)
- c** Describe binary code. [CIS.HS.9.1C](#)
- d** Define common industry terminology. [CIS.HS.9.1D](#)

Plan a website and/or app for a specific purpose. [CIS.HS.9.2](#)

- a** Develop a storyboard, mock-up, and wireframes for a website and/or app. [CIS.HS.9.2A](#)
- b** Explain the design process in regards to audience, layout, time, and budget. [CIS.HS.9.2B](#)
- c** Identify the target market audience's needs. [CIS.HS.9.2C](#)
- d** Evaluate clients' needs based on current trends. [CIS.HS.9.2D](#)
- e** Plan for responsive design. [CIS.HS.9.2E](#)

Analyze elements and principles of design to communicate ideas consistent with project goals. [CIS.HS.9.3](#)

- a** Apply appropriate font and font family concepts. [CIS.HS.9.3A](#)
- b** Demonstrate knowledge of design decisions in regards to shapes, lines, colors. [CIS.HS.9.3B](#)
- c** Demonstrate knowledge of design decisions in regards to white space, margins, and layout of graphic and text. [CIS.HS.9.3C](#)
- d** Incorporate text layout techniques such as kerning, leading, and alignment. [CIS.HS.9.D](#)
- e** Incorporate audio, visual, and graphic elements [CIS.HS.9.E](#)
- f** Develop a focused concept, clear methods of conveyance, and unified theme that solves the given problem. [CIS.HS.9.F](#)
- g** Identify accessibility and standard compliance measures in order to communicate with a broad audience. [CIS.HS.9.3G](#)
- h** Explain design decisions in regards to themes. [CIS.HS.9.3H](#)

i Evaluate the impact of design decisions on the theme of a design. CIS.HS.9.3I

j Explain design and project goals using a storyboard, mock-up, and wireframes. CIS.HS.9.3J

Analyze legal and ethical responsibilities. CIS.HS.9.4

a Apply copyright laws as appropriate in website and app creation CIS.HS.9.4A

b Discuss security issues that are related to the utilization of the computer and/or Internet. CIS.HS.9.4B

c Describe situations where web pages and/or apps may be used unethically. CIS.HS.9.4C

d Describe licensing agreements. CIS.HS.9.4D

e Discuss the importance of creative commons. CIS.HS.9.4E

Create and test websites and/or apps designed for cross browser and mobile compatibility. CIS.HS.9.5

a Utilize standards-compliant elements in code that delivers essential content and functionality if older browsers are not capable of displaying content. CIS.HS.9.5

b Create websites and/or apps that utilize responsive design to allow for a variety of screen sizes and geometries to view the content in a meaningful and logical fashion. CIS.HS.9.5B

c Test an application on devices of varying geometries and operating system versions to ensure maximum compatibility. CIS.HS.9.5C

Implement quality assurance processes to deliver effective digital communication. CIS.HS.9.6

a Evaluate the website and/or app functionality. CIS.HS.9.6A

b Test a website and/or app in a variety of environments. CIS.HS.9.6B

c Evaluate site effectiveness through user search and accessibility to meet all audience needs. CIS.HS.9.6C

d Investigate web hosts. CIS.HS.9.6D

e Troubleshoot and maintain a website and/or app. CIS.HS.9.6E

f Evaluate cross-browser compatibility. CIS.HS.9.6F

g Identify the process of securing a domain name. CIS.HS.9.6G

Critique a website and/or app in accordance with web design principles. CIS.HS.9.7

a Assess download time. CIS.HS.9.7A

b Assess readability of the website and/or app. CIS.HS.9.7B

c Assess ease of navigation for both website and/or app. CIS.HS.9.7C

d Assess the design theme of a website and/or app. CIS.HS.9.7D

e Assess consistency of the theme across the entire website and/or app. CIS.HS.9.7E

f Assess the functionality of links. CIS.HS.9.7F

Identify opportunities in an information technology career field including but not limited to entrepreneurial opportunities, responsibilities, education, and certification. CIS.HS.9.8

a Identify information technologies used in various industries. CIS.HS.9.8A

b Discuss the impact of technology on all career fields. CIS.HS.9.8B

c Identify common tasks in career fields. CIS.HS.9.8C

d Discuss career opportunities in information technology career fields. CIS.HS.9.8D

e Describe the impact of technological change and the importance of lifelong learning in this career field. CIS.HS.9.8E