Nebraska CTE

Web Design & Development

Use code that is clear, well-formatted, and appropriately documented. CIS.HS.18.1	**a** Identify alternative codes and discuss advantages and disadvantages that led to their decision. CIS.HS.18.1.A
	b Review code to identify and fix errors. CIS.HS.18.1.B
	c Determine if existing code opens a website up to vulnerabilities. CIS.HS.18.1.C
Assess content for accessibility issues and discuss the issue and possible solutions. CIS.HS.18.2	**a** Analyze content flow and present alternative content with screen readers and other adaptive technologies CIS.HS.18.2.A
	b Consider mobile application functionality when network access is not available. CIS.HS.18.2.B
Create a single functional web page based on a design mockup and user requirements. CIS.HS.18.3	**a** Explain client and target audience needs. CIS.HS.18.3.A
	b Assess the needs of clients based on current trends. CIS.HS.18.3.B
	c Demonstrate use of collaborative development tools. CIS.HS.18.3.C
Create a web program that will utilize multiple languages and servers and will run on multiple platforms. CIS.HS.18.4	**a** Create a functional website with both front-end and back-end file management. CIS.HS.18.4.A
	b Employ a variety of web technologies to produce a final product that meets industry web development standards. CIS.HS.18.4.B
Identify common tools used for workflows associated with content generation. CIS.HS.18.5	**a** Identify one or more tools (i.e., proprietary, open source, or otherwise) that are capable of creating the required content (i.e., image, video, text). CIS.HS.18.5.A
	b Compare various tools designed for the same workflow. CIS.HS.18.5.B
Create web pages/apps without the aid of a prefabricated template. CIS.HS.18.6	**a** Illustrate industry standard development practices by coding web pages/apps. CIS.HS.18.6.A
Identify information tha[illegible] sul[illegible] co[illegible]	**a** Identify issues with collected information such as usernames, passwords, [illegible]ocation data, and preferences, and discuss the possible ramifications of [illegible]nisuse. CIS.HS.18.7.A

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	b Identify the benefits of a minimal set of permissions when authoring a mobile app and possible consequences of over requesting permissions. CIS.HS.18.7.B
Describe opportunities in an information technology career field including but not limited to entrepreneurial opportunities, responsibilities, education, and certification. CIS.HS.18.8	**a** Identify information technologies used in various industries. CIS.HS.18.8.A
	b Discuss the impact of technology on all career fields. CIS.HS.18.8.B
	c Identify common tasks in career fields. CIS.HS.18.8.C
	d Discuss career opportunities in information technology career fields. CIS.HS.18.8.D
	e Describe the impact of technological change and the importance of lifelong learning in this career field. CIS.HS.18.8.E