South Dakota CTE

Introduction to Information Technology (2021)

Understand the need and impact of technology. IT 1	1 **Define the relationship between electronic devices and computers.** IT 1.1
	2 **Describe the functional areas in which computers assist people.** IT 1.2
	3 **Describe how technology is impacting community.** IT 1.3
	4 **List physical and mental health dangers associated with computer use.** IT 1.4
Understand computer hardware required to meet specific needs. IT 2	1 **Understand how computer information is represented.** IT 2.1
	2 **Identify hardware components and their relationship to computer usage.** IT 2.2
	3 **Understand different types of memory and storage.** IT 2.3
	4 **Identify input and output devices to meet the needs of users.** IT 2.4
	5 **Understand the decision-making process involved in purchasing computer systems.** IT 2.5
Understand software solutions for personal and professional use. IT 3	1 **Explain how software is created, distributed, installed, and maintained.** IT 3.1
	2 **Describe the functions of system software and operating systems.** IT 3.2
	3 **Describe different types and purposes of productivity software.** IT 3.3
Understand technology used for the Internet. IT 4	1 **Describe how the Internet developed.** IT 4.1
	2 **Explain how hardware, protocols, and software work together to create the Internet.** IT 4.2
	3 **Explain the underlying structures and technologies used to support the Internet.** IT 4.3
Understand computer network and tel tec	1 **Understand the fundamentals of data communications.** IT 5.1
	ist the types of media, devices, and software needed for networking services. IT .2

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	3	List and describe the popular forms of wireless technologies. IT 5.3
Understand the needs and uses for digital media. IT 6	1	Understand the uses of digital media. IT 6.1
	2	Discuss how interactive media is used to educate and entertain. IT 6.2
Understand computer crime and information security. IT 7	1	Describe methods of keeping electronic devices secure. IT 7.1
	2	Discuss the threats and defenses for networks. IT 7.2
	3	Describe the threats posed by hackers, software, scams and the methods of defending against them. IT 7.3
Understand technology ethics in a global society. IT 8	1	Describe the negative and positive impacts of social media. IT 8.1
	2	Explain the ways in which technology is used to invade personal privacy. IT 8.2
	3	Identify ethical issues related to digital technology. IT 8.3
Explore careers in information technology. IT 9	1	Identify skills, interests, and abilities related to information technology. IT 9.1
	2	Compare personal interest survey results with information technology occupations. IT 9.2
	3	Research labor market information for information technology. IT 9.3
	4	Demonstrate necessary job skills needed for Information and Technology industries. IT 9.4
Demonstrate knowledge of the software development process. IT 10	1	Apply tools for developing software applications. IT 10.1
	2	Demonstrate knowledge of programming structures. IT 10.2