

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Safety

Course Code: 034354

CIP Code: 11.0103

COURSE INTRODUCTION:

A knowledge and understanding of networking concepts prepare students for the career area of network administration. As technology advances, the demand will continue to increase for employees who are able to resolve computer network problems.

Students apply problem-solving skills to business situations exploring computer maintenance activities. Students will analyze software problems, install software applications programs and customize defaults, connect components of a local area network, use basic network protocol, and troubleshoot network problems.

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UNIT DESCRIPTION:		SUGGESTED UNIT TIMELINE: 2 WEEKS					
Students will learn about safety procedures and equipment in networking.		CLASS PERIOD (min.): 50 MINUTES					
ESSENTIAL QUESTIONS:							
1. Why pay attention to ergonomics?							
2. How do I ground myself?							
3. What could be an issue with not using proper safety procedures/equipment?							
ESSENTIAL MEASURABLE LEARNING OBJECTIVES		CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
			GLEs/ CLEs	PS	CCSS	OTHER	DOK
1. List features of an ergonomically correct workstation					RI11-12.1	IT-I.1	1
					RI11-12.2	IT-I.2	
					RI11-12.3	IT-I.3	
					RI11-12.4	IT-I.4	
					RI11-12.5	IT-II.1	
					RI11-12.6	IT-IV.1	
					RI11-12.7	IT-V.1	
					RI11-12.10	IT-V.2	
					SL11-12.1	IT-VIII.1	
					SL11-12.2	IT-VIII.2	
					SL11-12.3	IT-VIII.3	
					SL11-12.4	IT-XIV.1	
					SL11-12.5	IT-XIV-.2	
					SL11-12.6	IT-XVI.1	

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				L11-12.1	IT-XVI.2	
				L11-12.2	MGMT-VIII-A.1	
				L11-12.3	MGMT-VIII-A.2	
				L11-12.4	MGMT-VIII-A.3	
				L11-12.4	MGMT-VIII-A.4	
				L11-12.5	COMM-I-A.1	
				L11-12.6	COMM-I-A.2	
				RST11-12.1	COMM-I-A.3	
				RST11-12.2	COMM-I-A.4	
				RST11-12.3	COMM-I-B.1	
				RST11-12.4	COMM-I-B.2	
				RST11-12.5	COMM-I-B.3	
				RST11-12.6	COMM-I-C.1	
				RST11-12.7	COMM-I-C.2	
				RST11-12.8	COMM-I-C.3	
				RST11-12.9	COMM-I-C.4	
				RST11-12.10	COMM-I-D.1	
				WHST11-12.1	COMM-I-D.2	
				WHST11-12.2	COMM-I-D.3	
				WHST11-12.4	COMM-I-D.4	
				WHST11-12.5	COMM-IV.1	
				WHST11-12.6	COMM-IV.2	
				WHST11-12.7	COMP-I.1	
				WHST11-12.8	COMP-II.1	
				WHST11-12.9	COMP-II.2	
				WHST11-12.10	COMP-III.1	
				A-SSE.1	COMP-III.2	
				A-SSE.2	COMP-IV.1	
				A-APR.1	COMP-IV.2	

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				A-APR.7 A-CED.1 A-CED.3 A-CED.4 S-IC.1 S-IC.2 S-IC.3 S-IC.4 S-ID.1 S-ID.2 S-ID.3 S-ID.4 S-ID.5 S-ID.6 S-ID.7 S-MD.5 S-MD.6 S-MD.7 S-CP.1 S-CP.5 N-Q.1 N-Q.2 N-Q.3 G-MG.1 G-MG.2	COMP-V.2	
2. Demonstrate using antistatic tools to prevent static discharge				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4	IT-I.1 IT-I.2 IT-I.3 IT-I.4	2

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				RI11-12.5	IT-II.1	
				RI11-12.6	IT-V.1	
				RI11-12.7	IT-V.2	
				RI11-12.10	IT-VIII.1	
				SL11-12.1	IT-VIII.2	
				SL11-12.2	IT-VIII.3	
				SL11-12.3	IT-XIV.1	
				SL11-12.4	IT-XIV-.2	
				SL11-12.5	IT-XVI.1	
				SL11-12.6	IT-XVI.2	
				L11-12.1	COMM-I-A.1	
				L11-12.2	COMM-I-A.2	
				L11-12.3	COMM-I-A.3	
				L11-12.4	COMM-I-A.4	
				L11-12.4	COMM-I-B.1	
				L11-12.5	COMM-I-B.2	
				L11-12.6	COMM-I-B.3	
				RST11-12.1	COMM-I-C.1	
				RST11-12.2	COMM-I-C.2	
				RST11-12.3	COMM-I-C.3	
				RST11-12.4	COMM-I-C.4	
				RST11-12.5	COMM-I-D.1	
				RST11-12.6	COMM-I-D.2	
				RST11-12.7	COMM-I-D.3	
				RST11-12.8	COMM-I-D.4	
				RST11-12.9	COMM-IV.1	
				RST11-12.10	COMM-IV.2	
				WHST11-12.1		
				WHST11-12.2		

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				WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10 G-MG.1 G-MG.2 G-MG.3 N-Q.1 N-Q.2 N-Q.3		
3. Describe the operation of fire suppression resources including fire extinguishers				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2	IT-II.1 IT-V.1 IT-V.2 IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-XIV.1 IT-XIV.2 IT-XVI.1 IT-XVI.2 COMM-I-A.1 COMM-I-A.2 COMM-I-A.3 COMM-I-A.4 COMM-I-B.1 COMM-I-B.2	2

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				L11-12.3 L11-12.4 L11-12.4 L11-12.5 L11-12.6 RST11-12.1 RST11-12.2 RST11-12.3 RST11-12.4 RST11-12.5 RST11-12.6 RST11-12.7 RST11-12.8 RST11-12.9 RST11-12.10 WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10 G-MG.1 G-MG.2 G-MG.3	COMM-I-B.3 COMM-I-C.1 COMM-I-C.2 COMM-I-C.3 COMM-I-C.4 COMM-I-D.1 COMM-I-D.2 COMM-I-D.3 COMM-I-D.4 COMM-IV.1 COMM-IV.2	
4. Identify electrical, mechanical, chemical, and environmental hazards				RI11-12.1 RI11-12.2	IT-V.1 IT-V.2	1

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				RI11-12.3	IT-VIII.1	
				RI11-12.4	IT-VIII.2	
				RI11-12.5	IT-VIII.3	
				RI11-12.6	IT-XIV.1	
				RI11-12.7	IT-XIV-.2	
				RI11-12.10	IT-XVI.1	
				SL11-12.1	IT-XVI.2	
				SL11-12.2	COMM-I-A.1	
				SL11-12.3	COMM-I-A.2	
				SL11-12.4	COMM-I-A.3	
				SL11-12.5	COMM-I-A.4	
				SL11-12.6	COMM-I-B.1	
				L11-12.1	COMM-I-B.2	
				L11-12.2	COMM-I-B.3	
				L11-12.3	COMM-I-C.1	
				L11-12.4	COMM-I-C.2	
				L11-12.4	COMM-I-C.3	
				L11-12.5	COMM-I-C.4	
				L11-12.6	COMM-I-D.1	
				RST11-12.1	COMM-I-D.2	
				RST11-12.2	COMM-I-D.3	
				RST11-12.3	COMM-I-D.4	
				RST11-12.4	COMM-IV.1	
				RST11-12.5	COMM-IV.2	
				RST11-12.6		
				RST11-12.7		
				RST11-12.8		
				RST11-12.9		
				RST11-12.10		

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				WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10 N-Q.1 N-Q.2 N-Q.3		
5. Practice workplace safety (e.g., first aid, eye protection, anti-static procedures)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2 L11-12.3	IT-II.1 IT-V.1 IT-V.2 IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-XIV.1 IT-XIV-.2 IT-XVI.1 IT-XVI.2 CARDEV-III-A.1 CARDEV-III-A.2 CARDEV-III-D.1 CARDEV-III-D.2 CARDEV-III-D.3 CARDEV-III-E.1 CARDEV-III-E.2	2

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				L11-12.4 L11-12.4 L11-12.5 L11-12.6 RST11-12.1 RST11-12.2 RST11-12.3 RST11-12.4 RST11-12.5 RST11-12.6 RST11-12.7 RST11-12.8 RST11-12.9 RST11-12.10 WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10	CARDEV-III-E.3 CARDEV-V-A.1 CARDEV-V-A.2 CARDEV-V-A.3 CARDEV-V-A.4	
6. Demonstrate proper use of hand and power tools				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6	IT-II.1 IT-V.1 IT-V.2 IT-VIII.1 IT-VIII.2 IT-VIII.3	2

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				RI11-12.7	IT-XIV.1	
				RI11-12.10	IT-XIV-.2	
				SL11-12.1	IT-XVI.1	
				SL111-12.2	IT-XVI.2	
				SL11-12.3	COMM-I-A.1	
				SL11-12.4	COMM-I-A.2	
				SL11-12.5	COMM-I-A.3	
				SL11-12.6	COMM-I-A.4	
				L11-12.1	COMM-I-B.1	
				L11-12.2	COMM-I-B.2	
				L11-12.3	COMM-I-B.3	
				L11-12.4	COMM-I-C.1	
				L11-12.4	COMM-I-C.2	
				L11-12.5	COMM-I-C.3	
				L11-12.6	COMM-I-C.4	
				RST11-12.1	COMM-I-D.1	
				RST11-12.2	COMM-I-D.2	
				RST11-12.3	COMM-I-D.3	
				RST11-12.4	COMM-I-D.4	
				RST11-12.5	COMM-IV.1	
				RST11-12.6	COMM-IV.2	
				RST11-12.7		
				RST11-12.8		
				RST11-12.9		
				RST11-12.10		
				WHST11-12.1		
				WHST11-12.2		
				WHST11-12.4		
				WHST11-12.5		

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				WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10		
7. Demonstrate proper use of electrically operated equipment including grounding				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2 L11-12.3 L11-12.4 L11-12.4 L11-12.5 L11-12.6 RST11-12.1 RST11-12.2 RST11-12.3	IT-II.1 IT-V.1 IT-V.2 IT-XIV.1 IT-XIV-.2 IT-XVI.1 IT-XVI.2 COMM-I-A.1 COMM-I-A.2 COMM-I-A.3 COMM-I-A.4 COMM-I-B.1 COMM-I-B.2 COMM-I-B.3 COMM-I-C.1 COMM-I-C.2 COMM-I-C.3 COMM-I-C.4 COMM-I-D.1 COMM-I-D.2 COMM-I-D.3 COMM-I-D.4 COMM-IV.1 COMM-IV.2	2

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				RST11-12.4 RST11-12.5 RST11-12.6 RST11-12.7 RST11-12.8 RST11-12.9 RST11-12.10 WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10		
8. Demonstrate proper lifting and carrying techniques				SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6	IT-V.1 IT-V.2 IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-XIV.1 IT-XIV-.2	2
<p>ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.)</p> <p>Informal assessments may be utilized such as observation with checklist and quizzes embedded in the vendor curriculum.</p> <p>Since most assessment items in network administration curricula are vendor specific and copyrighted, actual examples cannot be provided. Some suggested vendors are Cisco, Microsoft, and Comp-TIA.</p>						

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*Attach Unit Summative Assessment, including Scoring Guides/Scoring Keys/Alignment Codes and DOK Levels for all items. Label each assessment according to the unit descriptions above (i.e., Grade Level/Course Title/Course Code, Unit #.)	
Obj. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)
1-8	1. Teacher lectures and demonstrates proper safety procedures.
1-8	2. Teacher guides students practice for safety procedures.
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)
1-8	1. Students take notes on proper safety procedures.
1-8	2. Students practice proper safety procedures.
UNIT RESOURCES: (include internet addresses for linking) www.mcce.org – Resources @ MCCE: BE VIDEO 3 - Dangerous Business WGBH Educational Foundation BOSTON, MA, WGBH EDUCATIONAL FOUNDATION, 2002. VIDEO — Each year, 6,000 Americans lose their lives on the job. Yet if one of those workers dies on the job due to a company's willful disregard for federal safety regulations, the maximum penalty his employer faces is just six months in prison. Are America's workplace safety laws tough enough? FRONTLINE investigates workplace safety. 60 minutes. E 10.0301 K377 - The Socially Networked Classroom: Teaching in the New Media Age William Kist THOUSAND OAKS, CA, CORWIN PRESS, 2010. BOOK — This book demonstrates how pioneering teachers have successfully integrated screen-based literacies into their instruction. Includes: Real-world activities and lesson examples with assignment sheets, assessments, and rubrics; Ideas on fostering collaborative learning using blogs, wikis, nings, and other interactive media; Tips on Internet safety, blogging etiquette, protected blogging sites, and more; Blog entries from classroom teachers. Grades 5-12. T&I VIDEO 34 - Minimizing Back Strain on the Job	

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Tel-A-Train

CHATTANOOGA, TN 37405, TEL-A-TRAIN, 1995.

VIDEO — This in-depth program looks at back care from the health, safety and ergonomic perspective. It emphasizes both the day-to-day strains of lifting, sitting, and bending, as well as the dangers of improper lifting. Explanations of the ways in which back injuries can occur are given, as well as techniques for reducing back injuries. 21 minutes.