

DESE Model Curriculum: Network Administration (CIP Code: 11.0103)

GRADE LEVEL/UNIT TITLE: 11-12/Safety

COURSE INTRODUCTION					
<p>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.</p> <p>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.</p>					
UNIT DESCRIPTION				SUGGESTED UNIT TIMELINE	
Students will learn about safety procedures and equipment in networking.				2 weeks	
				CLASS PERIOD (min.)	
				50	
ESSENTIAL QUESTIONS					
<ol style="list-style-type: none"> Why pay attention to ergonomics? How do I ground myself? What could be an issue with not using proper safety procedures/equipment? 					
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	NBEA STANDARD				DOK
1. List features of an ergonomically correct workstation	IT-I.1	IT-XIV.1	COMM-I-A.4	COMM-I-D.4	1
	IT-I.2	IT-XIV-.2	COMM-I-B.1	COMM-IV.1	
	IT-I.3	IT-XVI.1	COMM-I-B.2	COMM-IV.2	
	IT-I.4	IT-XVI.2	COMM-I-B.3	COMP-I.1	
	IT-II.1	MGMT-VIII-A.1	COMM-I-C.1	COMP-II.1	
	IT-IV.1	MGMT-VIII-A.2	COMM-I-C.2	COMP-II.2	
	IT-V.1	MGMT-VIII-A.3	COMM-I-C.3	COMP-III.1	
	IT-V.2	MGMT-VIII-A.4	COMM-I-C.4	COMP-III.2	
	IT-VIII.1	COMM-I-A.1	COMM-I-D.1	COMP-IV.1	
	IT-VIII.2	COMM-I-A.2	COMM-I-D.2	COMP-IV.2	
IT-VIII.3	COMM-I-A.3	COMM-I-D.3	COMP-V.2		
2. Demonstrate using antistatic tools to prevent static discharge	IT-I.1	IT-VIII.2	COMM-I-A.3	COMM-I-C.4	2
	IT-I.2	IT-VIII.3	COMM-I-A.4	COMM-I-D.1	
	IT-I.3	IT-XIV.1	COMM-I-B.1	COMM-I-D.2	
	IT-I.4	IT-XIV-.2	COMM-I-B.2	COMM-I-D.3	
	IT-II.1	IT-XVI.1	COMM-I-B.3	COMM-I-D.4	
	IT-V.1	IT-XVI.2	COMM-I-C.1	COMM-IV.1	
	IT-V.2	COMM-I-A.1	COMM-I-C.2	COMM-IV.2	

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	IT-VIII.1	COMM-I-A.2	COMM-I-C.3		
3. Describe the operation of fire suppression resources including fire extinguishers	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 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
4. Identify electrical, mechanical, chemical, and environmental hazards	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 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	1
5. Practice workplace safety (e.g., first aid, eye protection, anti-static procedures)	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 CARDEV-III-E.3	CARDEV-V-A.1 CARDEV-V-A.2 CARDEV-V-A.3 CARDEV-V-A.4	2
6. Demonstrate proper use of hand and power tools	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 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
7. Demonstrate proper use of electrically operated equipment including grounding	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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8. Demonstrate proper lifting and carrying techniques	IT-V.1 IT-V.2	IT-VIII.1 IT-VIII.2	IT-VIII.3 IT-XIV.1	IT-XIV-.2	2
ASSESSMENT DESCRIPTIONS					
1. Informal assessments may be utilized such as observation with checklist and quizzes embedded in the vendor curriculum.					
2. 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.					
OBJ. #	INSTRUCTIONAL STRATEGIES				
1-8	1. Teacher lectures and demonstrates proper safety procedures.				
1-8	2. Teacher guides students practice for safety procedures.				
OBJ. #	INSTRUCTIONAL ACTIVITIES				
1-8	1. Students take notes on proper safety procedures.				
1-8	2. Students practice proper safety procedures.				
UNIT RESOURCES					
n/a					

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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

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.