

Blackhawk School District

CURRICULUM

Course Title: Tech Ed Lab Assistant
Course Number: 1043
Grade Level(s): 10-12
Periods Per Week: 5
Length of Course: semester
Credits: .5
Faculty Author(s): Brandon Smith
Date: January 2010

COURSE DESCRIPTION:

Students that have taken: How Stuff Works, Intro to Technical Design, or Wood/Metal Material Processing courses or are currently enrolled in any of them, have the opportunity to attain credit for basic facilities maintenance and assistance to/for the instructor. Selection of students will be very limited and admittance is determined by instructor approval.

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
<p>Class Rules and Syllabus</p> <p>PA Safety Lessons</p> <p>Equipment Demonstrations</p> <p>PA Safety Quizzes</p> <p>Individual Equipment Repair and Maintenance</p> <p>Special maintenance projects</p> <p>Testing Device Set-up and tear down</p> <p>Organization of Classroom, Storage room, and Laboratory</p> <p>Take inventory on consumable supplies and determine the best vendor for needed material or supplies</p> <p>Develop organizational tools and storage for classroom</p> <p>Individual contract will be developed to meet individual student needs and abilities</p>	<p>Lab Assistant 3.4.12.A2. Describe how management is the process of planning, organizing, and controlling work. 3.4.12.C3. Apply the concept that many technological problems require a multi-disciplinary approach. 3.4.10.D1. Refine a design by using prototypes and modeling to ensure quality, efficiency, and productivity of a final product. 3.4.10.D2. Diagnose a malfunctioning system and use tools, materials, and knowledge to repair it. 3.4.10.E7. Evaluate structure design as related to function, considering such factors as style, convenience, safety, and efficiency.</p>	<p>1 Days</p> <p>3 Days</p> <p>As Needed Inspection 1 day (weekly) for each machine</p> <p>As Needed Basis</p> <p>As Needed Basis</p> <p>Daily</p> <p>Monthly</p> <p>As Needed Basis</p> <p>.5 Days</p>	<p>Hand Tools</p> <p>Power Tools</p> <p>PA Dept. of Ed. Safety Packets and quizzes</p> <p>Instructor Designed Handouts</p> <p>Activity Materials and Supplies</p> <p>Testing Device(s)</p> <p>Lubricants</p> <p>Blades</p> <p>Belts</p> <p>Additional Parts</p> <p>Assorted Hardware</p> <p>Assorted Plastics</p> <p>Assorted Woods</p> <p>Assorted Styrofoam</p> <p>Adhesives</p> <p>Fasteners</p> <p>Etc.</p>	