

**OUTCOMES BASED LEARNING MATRIX**

**Course: Electrical systems** \_\_\_\_\_ **Department: Diesel Technology** \_\_\_\_\_

The student develops understanding of electrical knowledge as a foundation for future level advancement. The course gives the student the background and working knowledge of electrical theory required to test and service the electrical system of a diesel powered piece of equipment. Repair and troubleshooting procedures consisting of removal, disassembly, inspection, repair, and reassembly of electrical components are designed to prepare students for entry into the job market equipped with both the knowledge and skills needed for satisfactory performance on the job. Safety in all areas is constantly stressed as well as the development of correct work habits, attitudes, and interest for each student. Lecture: 2 hours Laboratory: 2 hours

<b>*COURSE OUTCOMES</b>	<b>OUTCOMES ACTIVITIES</b>	<b>ASSESSMENT TOOLS</b>
<b>Students will be conversant with the most common electrical terminology</b>	<b>Analyze circuits and schematics</b>  CT, QS, OC, TS, R	<b>1. Quizzes</b> <b>2. Troubleshooting live circuits in the lab.</b> TS, QS, OS, R
<b>Develop an understanding of the relationships between voltage, resistance and current</b>	<b>Read handouts, listen to lectures and videos, participate in team troubleshooting exercises</b> CT, TS, OC, QS, R	<b>Practical exams requiring troubleshooting, quizzes, written exams</b> TS, QS, OS, R

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Students will be able to:

<b>*COURSE OUTCOMES</b>	<b>OUTCOMES ACTIVITIES</b>	<b>ASSESSMENT TOOLS</b>
<b>Analyze simple DC circuits</b>	<b>Analyze circuits and schematics</b>  <b>CT, QS, OC, TS, R</b>	<b>1. Quizzes</b> <b>2. Troubleshooting live circuits in the lab.</b> <b>TS, QS, OS, R</b>
<b>Understand basic Electricity</b>	<b>Read handouts, listen to lectures and videos, participate in team troubleshooting exercises</b> <b>CT, TS, OC, QS, R</b>	<b>Practical exams requiring troubleshooting, quizzes, written exams</b> <b>TS, QS, OS, R</b>

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