# OUTCOMES BASED LEARNING MATRIX

## Course: Truck Components 1  _____Department:  Diesel Technology_____

This introductory course will introduce the student to a number of specialized areas that a diesel technician will encounter. Through classroom lecture and lab application the student will learn maintenance and repair procedures for heavy-duty truck components. Specialized areas of study will include braking, steering, suspension, and basic drivelines. The lab will provide practical experience in trouble-shooting and maintenance of these components. Lecture: 2 hours Laboratory: 2 hours Pre/Corequisite: Engine Principles I (DIES107) or Permission of Instructor

| *COURSE OUTCOMES | OUTCOMES ACTIVITIES | ASSESSMENT TOOLS |
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| Students will be conversant with the most common Heavy Duty Truck terminology | Analyze truck chassis components and schematics<br><br>CT,QS, OC, TS, R | 1. Quizzes<br>2. Troubleshooting and repair of truck components in the lab.<br>TS, QS, OS, R |
| Develop an understanding of the relationships between the different components on a Heavy Duty Truck Chassis | Read handouts, listen to lectures and videos, participate in team troubleshooting exercises<br>CT, TS,OC, QS, R | Practical exams requiring troubleshooting, quizzes, written exams<br>TS,QS,OS,R |

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Students will be able to:

| *COURSE OUTCOMES | OUTCOMES ACTIVITIES | ASSESSMENT TOOLS |
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| **Analyze simple DC circuits on truck chassis, analyze air brake problems, analyze suspension problems** | **Analyze chassis manuals and schematics**<br><br>**CT,QS, OC, TS, R** | **1. Quizzes**<br>**2. Troubleshooting live circuits in the lab.**<br>**TS, QS, OS, R** |
| **Understand basic cab components** | **Read handouts, listen to lectures and videos, participate in team troubleshooting exercises. Analyze cab manuals and schematics**<br><br>**CT, TS,OC, QS, R** | **Practical exams requiring troubleshooting, quizzes, written exams**<br>**TS,QS,OS,R** |

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