

OUTCOMES BASED LEARNING MATRIX

Course: Truck Components 2 _____ **Department: Diesel Technology** _____

This course will introduce the student to a number of specialized areas that a diesel technician will encounter. The students will build on the knowledge which they received in Truck Components I. The more complex components discussed include ABS brakes, on board computer systems, hydraulics, and transportation refrigeration. The lab will provide practical experience in troubleshooting and maintenance of these components. Lecture: 2 hours Laboratory: 2 hours

Prerequisite: Truck Components I (DIES123) or Permission of Instructor

*COURSE OUTCOMES	OUTCOMES ACTIVITIES	ASSESSMENT TOOLS
Students will be conversant with the most common Heavy Duty Truck terminology	Analyze truck chassis components and schematics CT, QS, OC, TS, R	1. Quizzes 2. Troubleshooting and repair of truck components in the lab. 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 CT, TS, OC, QS, R	Practical exams requiring troubleshooting, quizzes, written exams TS, QS, OS, R

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Students will be able to:

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Analyze more complex DC circuits on truck chassis, analyze antilock air brake problems, understand clutches, hydraulic brakes, vehicle coupling devices, mechanical refrigeration.	Analyze chassis manuals, clutch manuals, hydraulic brake manuals, refrigeration manuals and schematics, CT, QS, OC, TS, R	1. Quizzes 2. Troubleshooting components in the lab. TS, QS, OS, R
Understand complex multiplexed cab components	Read handouts, listen to lectures and videos, participate in team troubleshooting exercises. Analyze cab manuals and schematics CT, TS, OC, QS, R	Practical exams requiring troubleshooting, quizzes, written exams TS, QS, OS, R

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