

OUTCOMES BASED LEARNING MATRIX

Course: Fuel systems _____ **Department: Diesel Technology** _____

This course is designed to give the student the background and working knowledge of modern diesel fuel injection systems and their components, which are a necessary part of the diesel internal combustion engine. Topics include the operation of instruments, computer diagnostic and calibration programs and special tools required to test current production fuel systems on modern diesel engines. Lecture: 2 hours Laboratory: 2 hours Prerequisite: Engine Principles I (DIES107) or Permission of Instructor

*COURSE OUTCOMES	OUTCOMES ACTIVITIES	ASSESSMENT TOOLS
Students will be conversant with the most common Fuel System terminology	Analyze Fuel system designs and schematics CT, QS, OC, TS, R	1. Quizzes 2. Troubleshooting live fuel systems in the lab. TS, QS, OS, R
Develop an understanding of the relationships between the different fuel systems used on Diesel engines	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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Troubleshoot and repair common fuel system problems	Analyze fuel system circuits and schematics CT, QS, OC, TS, R	1. Quizzes 2. Troubleshooting running fuel systems in the lab. TS, QS, OS, R
Understand basic fuel injection theory and function as it applies to the various types of systems used in the current Diesel market	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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