Course: DIES 141 Fundamentals of Standby Power

Department: Diesel Technology

Course Description:

This course introduces the student to a number of specialized areas that a diesel technician will encounter. Through classroom lecture and lab application, the student learns maintenance and repair procedures for Standby and prime power generation components. Specialized areas of study include Engine protection controls, load banks, generator switchgear. The lab provides practical experience in troubleshooting and maintenance of these components. Safety in all areas is constantly stressed as well as the development of correct work habits, attitudes, and interest for each student.

Three lecture and two laboratory hours per week.

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

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