

Report : Operational Plan Details for : Diesel Powered Equipment Technology

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Workspace : Program Assessment Plans

Operational Plan: 2018-2020 Assessment Cycle: Use of Results and Status Report

Operational Plan Template: Academic Program Operational Plan Template

Report Generated : Friday, September 04, 2020

Actions and Status Report

Diesel Powered Equipment Technology Outcome Set (2018-2020)

Outcome

SLO 1

Demonstrate the ability to identify components of cooling systems and troubleshoot for issues.

Action Plan for SLO 1

Action Plan Details:

Students failed to meet the established benchmarks for both measures related to SLO 1. Analysis proved that more emphasis will be placed on using service information, an increase in student participation on use of service information will be required. Both measures will be continued from the 2018-2020 assessment cycle with an aim to reach original benchmarks during the 2020-2021 academic year.

Measures:

Measure 1:

Course Alignment: DPET 1140

Acceptable Target: At least 70% of Diesel Powered Equipment Technology students will be able to identify proper procedures for cooling system service including distinguishing between different types of coolant characteristics, testing coolant concentration and additives, and identifying components and procedures for testing proper operation.

Measure Description: Written Test - Chapter 13: Engine Construction & Operations - Multiple choice test

Measure 2:

Course Alignment: DPET 1140

Acceptable Target: At least 85% of Diesel Powered Equipment Technology students will be able to verify level and type, condition of coolant, consumption and its cause, test freeze protection level, and

additive package concentration and determine needed action.

Measure Description: Performance Test - Assessed in Chapter 13 in the form of a hands-on skill demonstration - CDX Tasksheet Number H068

SLO 2

Demonstrate the ability to identify and properly use electrical testing equipment commonly used in industry.

Action Plan for SLO 2

Action Plan Details:

In review of results for SLO 2, student achievement on both measures met the established benchmarks with students exceeding expectations on CDX Tasksheet Number H273. Students that did not meet the goal had a low participation rate. Encouragement of students to participate will be expanded. Attendance was a key factor in the success rate. The attendance policy and stressing the need to come to class will be emphasized. The overall use of training aids available has Proven to be successful. Maintaining and expansion of training aids would be helpful. Expanding the training materials and encouraging students to attend classes should result in an increase above the 82% success rate.

Measures:

Course Alignment: DPET 1210
Acceptable Target: At least 82% of Diesel Powered Equipment Technology students will be able to identify electrical test equipment and proper procedures for their use.
Measure Description: Written Exam - Chapter 10 Electrical Test Instruments - Multiple choice test

SLO 3

Demonstrate the ability to identify components and perform repairs to wheel, rim and hub components.

Action Plan for SLO 3

Action Plan Details:

For SLO 3, students exceeded benchmark achievement on the Wheel Rims and Hubs exam but did not reach expectations with the hands-on evaluation (CDX Tasksheet Number H224). Evaluation of components for reuse will be emphasized to a greater degree. Expansion of training aids will be implemented. The evaluation of components will be emphasized. An increase on performance in the areas of

properly repairing wheels, rims and hub components should be evident. The evaluation of components will be emphasized.

Measures:

Course Alignment: DPET 2210
Acceptable Target: At least 85% of Diesel Powered Equipment Technology students will be able to identify components and proper service procedures and tools used in servicing wheels, rims, and hubs.
Measure Description: Written Exam - Chapter 24 Wheel Rims and Hubs - Multiple Choice Test

SLO 4

Demonstrate the ability to identify components and conduct performance test on heating and air conditioning systems.

Action Plan for SLO 4

Action Plan Details:

Results for SLO 4 did not meet expectations, with performance on both measures being fairly low. Attendance factored heavily into the results. More lab time will be utilized for the performance test and identification of system types. The importance of attendance will be stressed at the start of the course. With the implementation of more lab time devoted to the problem areas an increase in the success rate should be evident. Encouragement of students to attend will be emphasized.

Measures:

Measure 1:
Course Alignment: DPET 2220
Acceptable Target: At least 70% of Diesel Powered Equipment Technology students will be able to identify the basic principles of heating and refrigeration, identify heat load, and distinguish between different types of heat and the principles of heat transfer and control (removal and addition).
Measure Description: Written Exam - Chapter 51 Principles of Heating and Air-Conditioning Systems - Multiple Choice Test

Measure 2:
Course Alignment: DPET 2220
Acceptable Target: At least 70% of Diesel Powered Equipment Technology students will be able to identify different types of a/c systems, their components, and conduct performance test on HVAC systems and

determine any needed action.
Measure Description: Performance Test -
Assessed in Chapter 51 in the form of a
hands-on skill demonstration - CDX
Tasksheet Number H338

SLO 5

Demonstrate the ability to identify tooling and procedures for preventative maintenance as well as properly use diagnostic equipment for retrieval of diagnostic codes.

Action Plan for SLO 5

Action Plan Details:

Students failed to reach performance benchmarks for both measures related to SLO 5. After analysis it was determined that the diagnostic equipment assessment was given too early in the semester, it will be moved to the end. Also, participation in the pretest and study guides was low. A pretest requirement to take the actual test will be required. Students will be able to identify tooling and use diagnostic tooling at an increased success rate.

Measures:

Measure 1:

Course Alignment: DPET 2240
Acceptable Target: At least 70% Diesel Powered Equipment Technology students will be able to select and identify tooling and procedures involved in a preventative maintenance inspection.
Measure Description: Written Exam - Chapter 55 Preventative Maintenance and Inspection - Multiple Choice Test

Measure 2:

Course Alignment: DPET 2240
Acceptable Target: At least 85% of Diesel Powered Equipment Technology students will be able to use electronic service tool(s) or on-board diagnostic system, retrieve engine monitoring information, check and record diagnostic codes and trip/operational data (including engine, transmission, ABS, and other systems).
Measure Description: Performance Test - Assessed in Chapter 55 in the form of a hands-on skill demonstration - CDX
Tasksheet Number H430