

GBC Class/Course Assessment Report

Course Prefix, Number, and Title: DT 215

Department: Diesel

Instructor: Chris Minnier

Academic Year: 2023-2024

Section Number(s):

Is this a GenEd class? Yes ___ No x

Complete and submit your assessment report electronically to your department chair. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.

Class/Course Outcomes	Assessment Measures	Assessment Results	Any Changes Made as a Result of Assessment
In the boxes below, summarize the outcomes assessed in your class or course during the last year. If this is a GenEd class, include the appropriate GenEd objectives.	In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you'll use to judge whether or not students have achieved the expected outcome.	In the boxes below, summarize the results of your assessment activities during the last year. Include your judgment as to whether or not the criterion for student achievement has been met.	In the boxes below, summarize how you plan to use the results to improve student learning.
Outcome #1: Know electronic component operation as related to fuel systems.	Assessment Measure: The ability to explain the system in written form as well as verbal. The student should also be able to use the principle for trouble shooting in the lab. Criterion for achievement: Pass the explanation to a level of 80% of how the system works.	Results: About 80 % of the students meet this requirement. Criterion Met: Yes	Action Plan: Use of different videos as well as allow the students the opportunity to explain the systems to others,
Outcome #2: Know sensor operation.	Assessment Measure: (1) Written examination. (2) Practical evaluation. Students will be asked to physically demonstrate competencies in laboratory exercises. (3) Verbal. Students demonstrate competence through oral examinations Criterion for achievement: 80 percent or better	Results: 80 percent passed the written with 90 or better 70 percent could identify the sensors 80 percent could explain the sensors Criterion Met: Yes	Action Plan: More sensor identification activities. Research papers on sensors
Outcome #3: Know electronic injector operation.	Assessment Measure: 1) Written examination.	Results: There was 15 percent that did not reach this level of skill.	Action Plan: Build some cut away injector modules.

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	<p>(2) Practical evaluation. Students will be asked to physically demonstrate competencies in laboratory exercises.</p> <p>(3) Verbal. Students demonstrate competence through oral examinations</p> <p>Criterion for achievement: 80 percent or better</p>	<p>Criterion Met: Yes</p>	
<p>Outcome #4: Demonstrate the ability to operate electronic trouble shooting test equipment.</p>	<p>Assessment Measure:</p> <p>1) Written examination.</p> <p>(2) Practical evaluation. Students will be asked to physically demonstrate competencies in laboratory exercises.</p> <p>(3) Verbal. Students demonstrate competence through oral examinations</p> <p>Criterion for achievement: 80 percent or better</p>	<p>Results: There was only about 60 percent that could do this effectively by the end of the course.</p> <p>Criterion Met: No</p>	<p>Action Plan: Get better scan tools. Make better lab task that will help them understand and explore.</p> <p>Renew Caterpillar Electronic Technician to provide better learning opportunity.</p>
<p>Outcome #5: Demonstrate the ability to test sensor operation on and off engine.</p>	<p>Assessment Measure:</p> <p>1) Written examination.</p> <p>(2) Practical evaluation. Students will be asked to physically demonstrate competencies in laboratory exercises.</p> <p>(3) Verbal. Students demonstrate competence through oral examinations</p> <p>Criterion for achievement: 80 percent or better</p>	<p>Results: There was only about 60 percent that could do this effectively by the end of the course.</p> <p>Criterion Met: No</p>	<p>Action Plan: Make better lab task that will help them understand and explore. Find more bad sensors and good sensors to test for practice.</p>
<p>Outcome #6: Demonstrate the ability to locate faulty electronic components</p>	<p>Assessment Measure:</p> <p>1) Written examination.</p> <p>(2) Practical evaluation. Students will be asked to physically demonstrate competencies in laboratory exercises.</p> <p>(3) Verbal. Students demonstrate competence through oral examinations</p> <p>Criterion for achievement: 80 percent or be</p>	<p>Results: There was only 40 percent that reached the criteria.</p> <p>Criterion Met: Yes</p>	<p>Action Plan: I think the reason for the results is many of the students did not do very well in electrical and struggled to grasp the concepts. I will review more electrical theory before.</p>

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Notes:

I have reviewed this report:

Department Chair

Date _____

Dean

Date _____

Vice President of Academic Affairs and Student Services

Date _____