

# Course Assessment – Part A: Your Plan

#46

Your Email \*

Please select your course & name from the list. Contact Instructional Services if your course or name are incorrect or missing

MEC 121 – Lieurance

Outcome #1 \*

Apply basic mechanical principals to troubleshoot and repair mechanical problems.

Outcome #2 \*

Differentiate between types of nuts, bolts, fasteners, gears, bearings, lubrication, and other pieces of machinery involved in the construction and operation of wind turbines and industrial mechanical equipment.

Outcome #3 \*

Understand the physics of kinetic energy transfer from wind to blade to generator, and compute energy loss caused by mechanical friction and electrical resistance.

Have you completed an assessment for this course prior to this term? No

If yes, are you assessing different outcomes? No

Comments:

2. To which degree, certificate or program outcomes do these course outcomes map? Degree, Certificate & Program Outcomes can be found at:  
<http://www.cgcc.edu/curriculum/program-outcomes>

- Associate of Applied Science in Renewable Energy Technology (RET)
- Renewable Energy Technology Certificate (RET)

Outcome #1 Method to assess student understanding \*

Students will be tested on the material presented in class, on line, and in the book.

Outcome #2 Method to assess student understanding \*

Students will be given an assessment in class and in lab and asked to demonstrate proficiency in disassembling and assembling working mechanical systems and identification and use of fasteners, gears, bearings, lubrication, and other pieces of machinery.

Outcome #3 Method to assess student understanding \*

Students will be tested on the construction and operation of a power generation system.

4. How will you know if you were successful in your efforts to teach this outcome?

80% of class receives grade of 70% or better on formative tests, the

summative test, and labs

Outcome #1 \*

How will you know if you were successful in your efforts to teach this outcome? 80% of class receives grade of 70% or better on formative tests, the summative test, and labs

Outcome #2 \*

How will you know if you were successful in your efforts to teach this outcome? 80% of class receives grade of 70% or better on formative tests, the summative test, and labs

Outcome #3 \*

#1 What equipment was needed in the lab that we did not have?

#2 Were the principals taught in class demonstrated in the lab?

Do you require the names of students who complete the course evaluation survey? \* • No

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