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AMT 271-Aviation Maintenance- Bryan Despain- Fall 2023

*** Part B: Your Results DIRECTIONS 1. Report the outcome achievement data gathered via the assignments, tests, etc. you identified for each outcome (question 3) of your Part A. (Only include data for students who completed the course. Do not include students who withdrew or earned an incomplete) Data for all 3 outcomes should be reported below.**

All of my students passed with a C grade or better. I cannot access anthology for past course in order to analyze percentages at different levels and report here. Several emails and request for this information in the past have not been addressed, so I find myself uninterested in pursuing it for this report at this time. (Reference Part B for course AMT 193 Winter 2023)

*** Outcome #1**

Apply knowledge of construction and operation to the maintenance, repair and troubleshooting of aircraft reciprocating engines.

Inspect and repair a reciprocating engine

Understand construction characteristics of crankshaft and rod assembly

Analyze operation of thrust bearings and crankshaft bearings

Classify reciprocating engines and firing orders

*** % of students who successfully achieved the outcome (C or above)**

100

*** Outcome #2**

Identify, analyze and apply strategies for applying the research of all current manufacturer service information, and other airworthiness requirements including airworthiness directives, prior to the maintenance, repair or overhaul of aircraft reciprocating engines.

Identify manufacturer engine service resources

Research FAA airworthiness requirements

Read and interpret service information and airworthiness requirements for application

*** % of students who successfully achieved the outcome (C or above)**

100

*** Outcome #3**

Inspect and troubleshoot engine installations.
Check engine valve clearances
Perform compression check
Test operation of ignition system
Identify operating indications of a worn or weak engine.

*** % of students who successfully achieved the outcome (C or above)**

100

*** ANALYSIS 3. What contributed to student success and/or lack of success?**

Lecture followed by lab projects to put the theory presented in lecture/discussion, into practical application. Frequent review of material through discussion while performing the practice projects. On-going quizzing through out the term. Exams at key points along the way to simulate FAA exams and to evaluate general knowledge of the subject.

*** 4. Helping students to realistically self-assess and reflect on their understanding and progress encourages students to take responsibility for their own learning. Please compare your students' perception of their end-of-term understanding/mastery of the three outcomes (found in student evaluations) to your assessment (above) of student achievement of the three outcomes.**

Student response to the survey was limited. To my knowledge there was only one respondent. That response was not reflective of the course as they did not indicate they had learned anything that would help them advance their skills into employment.

*** 5. Did student achievement of outcomes meet your expectations for successfully teaching to each outcome (question 4 from Part A)**

Each of the students completed the term with grades exceeding the passing grade of C or better.

*** 6. Based on your analysis in the questions above, what course adjustments are warranted (curricular, pedagogical, student instruction, etc.)?**

I will advance additional projects to reinforce the subject matter discussions and lecture. This will help the students engage in their learning experience more fully.

7. What resources would be required to implement your recommended course adjustments (materials, training, equipment, etc.)? What Budget implications result?

Additional training aids required to provide a minimum of a 4:1 student/aid ration. Budget increase of \$250,000 need to acquire powerplant test cells.

*** 8. Describe the results of any adjustments you made from the last assessment of this course (if applicable) and their effectiveness in student achievement of outcomes.**

NA

9. Describe how you explain information about course outcomes and their relevance to your students.

Relate to them experiences in the industry where each of the subject elements have been implemented and utilized throughout the career of myself and other AMTS.

10. Please describe any changes/additions to instruction, curriculum or assessment that you made to support students in better achieving the CGCC Institutional Learning Outcomes: ILO #1: Communication. The areas that faculty are focusing on are: "Content Development" and/or Control of Syntax and Mechanics" and ILO #2: Critical Thinking/Problem Solving. The areas that faculty are focusing on are: "Evidence" (Critical Thinking) and/or "Identify Strategies" (Problem Solving). ILO #4: Cultural Awareness. The area that faculty is focusing on is: "Openness" (Encouraging our students to "Initiate and develop interactions with culturally different others") ILO #5: Community and Environmental Responsibility. The area that faculty are focusing on are: "Applying Knowledge to Contemporary Contexts" and "Understanding Global Systems" ILO#3 - Quantitative Literacy - "Application/Analysis" and/or "Assumptions"

I will continue to enforce expectations of community cooperation and respect for one another in the classroom and lab. Tool accountability and an understanding of Human Factors will consistently be reviewed. Environmental stewardship is exercised in our activities in accordance with local, state and federal regulations and best practices. There is constant reflection and analysis of technical data and application.