Course Assessment - Part A: Your Plan

COMPLETE #614

*** Your Email**

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Please select your course and name from the drop-down menu. If your course or name are incorrect or missing, contact the Curriculum and Assessment Administrative Assistant, 541-506-6037 or swade@cgcc.edu.

AMT 193- Aviation Maintenance: General 103- Bryan Despain- Winter 2023

*** Part A: Your Plan DIRECTIONS 1. Choose three of your course outcomes to assess and report on this term (these will also be used in your Student Course Evaluation survey): Outcome #1**

Apply electrical theory to aircraft systems and components

*** Outcome #2**

Measure and calculate electrical power

*** Outcome #3**

Demonstrate electrical testing and monitoring instruments for aircraft electrical circuits

Have you completed an assessment for this course prior to this term?

No

If yes, are you assessing different outcomes?

No

Comments:

This is my first time facilitating this course

2. To which degree(s) or certificate(s) does your course map? Degree, Certificate, & Program Outcomes

Associate of Applied Science in Aviation Maintenance Technology, Aviation Maintenance Technology Certificate

*** Method of Assessment 3. What methods will be used to assess individual student understanding of each of these outcomes? (Please be specific.) Outcome #1: Method to assess student understanding**

Written exams will cover understanding of the basic operating principles of DC and AC electrical circuits in systems and instruments. Show understanding and use of the mathematical prefixes used in electrical quantities. Show an understanding of electrical system schematic symbols used in diagrams and schematics. Lab project will also be evaluated in the design of a circuit that will require determination of power requirements when voltage and resistance is known.

*** Outcome #2: Method to assess student understanding**

Written exam explaining the operation of a generator and the distribution of power to an electrical system. Calculate the power, resistance, voltage and current in series, parallel and complex circuits. determine the power requirements of an electric motor at a specific efficiency and load.

*** Outcome #3: Method to assess student understanding**

Demonstrate understanding and ability to connect voltmeter and ammeters to a circuit for the purpose of testing the circuit for proper operation and troubleshooting techniques. Explain the effects of connecting cells in a series or parallel circuit.

*** 4. How will you know if you were successful in your efforts to teach this outcome? Outcome #1:**

Written test scores will be used to show a passing grade of no less that a 70%. The class average must must meet this minimum to show successful delivery of this course

*** Outcome #2: How will you know if you were successful in your efforts to teach this outcome?**

Written test scores will be used to show a passing grade of no less that a 70%. The class average must must meet this minimum to show successful delivery of this course

*** Outcome #3: How will you know if you were successful in your efforts to teach this outcome?**

Written test scores will be used to show a passing grade of no less that a 70%. The class average must must meet this minimum to show successful delivery of this course

5. Instructor Questions: Create two course specific questions to be included on the Student Course Evaluation. Question #1

Has this course provided you the understanding of basic electrical theory and the operation of the basic components of an electrical circuit?

Question #2

How comfortable are you in examining an electrical system schematic and identifying the components, operation, and purpose of the diagramed system?

Do you require the names of students who complete the course evaluation survey? (Please note: names will be sent to instructors the Thursday before term ends)

Yes

Reminder, when completing Part B, instructors will be asked the following questions: Describe anything you did to assist the institutional effort to support students in improving achievement of the specified criteria for the following Institutional Learning Outcomes (ILO): 1. ILO#1 - Communication - "Content Development" and/or "Control of Syntax and Mechanics" 2. ILO#2 - Critical Thinking/Problem Solving - "Evidence" and/or "identify strategies" 3. ILO#4 - Cultural Awareness - "Curiosity" (Encouraging our students to "Ask deeper questions about other cultures and seek out answers to these questions") 4. ILO#5 - Community and Environmental Responsibility - "Understanding Global Systems" and/or "Applying Knowledge to Contemporary Global Contexts" 5. ILO#3 - Quantitative Literacy - "Application/Analysis" and/or "Assumptions"

(No response)