SOWELA TECHNICAL COMMUNITY COLLEGE

Learning Outcomes Assessment Report

All-Years

Acad Program - Aviation Maintenance Technology (AAS)

Execute Federal Aviation Administration (FAA) Forms

Program Learning Outcome: Execute Federal Aviation Administration (FAA) forms/records, composing appropriate corresponding aircraft maintenance records entries, and show compliance with a 100 hour/Annual inspection in accordance with the Title 14 of the Code of Federal Regulations (CFR). Assessed in the CTS- Airframe.
Outcome Status: Active
Assessment Years: 2023 - 2024

Assessment Method	Assessment Result
Method Status: Active **Assessment Method:** Course exams and projects. **Criterion:** 50% of students enrolled will pass AMTG 1080 and AMTA 2140.	**Assessment Result Date**: 05/13/2024 **Assessment Result**: 100% of student passed the exams and projects required for AMTG 1080 and AMTA 2140. **Reporting Period**: 2023 - 2024 **Result Type**: Criterion Met **Analysis**: After reviewing data for AMTG 1080 and AMTA 2140, it has been determined that all criteria has been met, and the necessary knowledge and skills have been acquired. **How did the previous cycle's improvement plan impact the data above?**: The improvement plan from last cycle did help maintain proficiencies in the course. **Improvement Plan**: Although all criteria had been met, Course Context Experts and Deans are working to identify a specific project or assignment to better assess PLO.

Federal Aviation Administration (FAA) Certification

Program Learning Outcome: Pass the Federal Aviation Administration (FAA) knowledge, oral, practical and written examinations in General, Airframe, and Powerplant subjects and obtain FAA general mechanic, airframe and powerplant certifications. Assessed in the TD- Aviation Maintenance Technology Airframe and Powerplant.
Outcome Status: Active
Assessment Years: 2023 - 2024

Assessment Method	Assessment Result
Method Status: Active **Assessment Method:** FAA Knowledge and Oral/Practical Tests **Criterion:** 50% of students taking Knowledge and Oral/Practical tests will pass.	**Assessment Result Date**: 05/13/2024 **Assessment Result**: 14% of graduates have taking Knowledge and Oral/Practical tests. **Reporting Period**: 2023 - 2024 **Result Type**: Criterion Not Met **Additional Notes**: Of the 7 graduates in this result cycle only 1 has taken the A&P test.

Assessment Method	Assessment Result
	Analysis: A trend has been observed that students normally wait 1-2 years after graduating to take the A&P exam. **How did the previous cycle's improvement plan impact the data above?**: N/A **Improvement Plan**: SOWELA is has entered into a contract with PSI testing services and will be able to offer the written tests for General, Airframe, and Powerplant on campus. Additionally, SOWELA sent a staff instructor to the Federal Aviation Administration (FAA) Designated Mechanic Examiner (DME) training course. This instructor has successfully completed the class and subsequently received his certification to offer the FAA oral and practical examinations onsite. Because of this, students will be able to complete all their testing onsite. With these two events, along with restructuring the curriculum to make it possible to finish the program in four instead of five semesters, and imbedding a culture of testing withing the school, we believe SOWELA will significantly increase the number of students who complete their FAA Airframe and Powerplant certifications within 60 days of completing the program.

Inspect Aircraft Components

Program Learning Outcome: Demonstrate mechanical ability to inspect an aircraft electrical, engine, fuel, navigation and instrument systems and other aircraft components specified by Title 14 of the Code of Federal Regulations (CFR) Part 147. Assessed through the CTS- Airframe and CTS- Powerplant.
Outcome Status: Active
Assessment Years: 2023 - 2024

Assessment Method	Assessment Result
Method Status: Active **Assessment Method:** Course exams and projects. **Criterion:** 50% of students enrolled will pass AMTA 2090, AMTA 2140, AMTP 2290, AMTA 2000, AMTP 2310, AMTA 2100 and/or AMTA 2110.	**Assessment Result Date**: 05/13/2024 **Assessment Result**: 95% of students enrolled have passed the exams and projects associated with AMTA 2090, AMTA 2140, AMTP 2290, AMTA 2000, AMTP 2310, AMTA 2100 and/or AMTA 2110. **Reporting Period**: 2023 - 2024 **Result Type**: Criterion Met **Analysis**: After reviewing data in AMTA 2090, AMTA 2140, AMTP 2290, AMTA 2000, AMTP 2310, AMTA 2100 and/or AMTA 2110, it has been determined that all criteria has been met, and the necessary knowledge and skills have been acquired. **How did the previous cycle's improvement plan impact the data above?**: The improvement plan from last cycle did help maintain and improve proficiencies in the course. **Improvement Plan**: Due to consistently high Assessment Results, Administration/Dean will meet with faculty in program to determine if an increase to the criterion percentage is needed.

Satisfactory Employment Habits

Program Learning Outcome: Display proper behavior reflecting satisfactory work habits, safety procedures, hazards, housekeeping, and ethics to fulfill program requirements and confidence to prepare for employment in the aviation maintenance industry. Assessed in CTS- Airframe.
Outcome Status: Active
Assessment Years: 2023 - 2024

Assessment Method	Assessment Result
Method Status: Active **Assessment Method:** Course exams and projects for AMTG 1030 and AMTG 1040. **Criterion:** 50% of students will pass.	**Assessment Result Date**: 05/13/2024 **Assessment Result**: 85% of students have passed the exams and projects associated with AMTG 1030 and AMTG 1040. **Reporting Period**: 2023 - 2024 **Result Type**: Criterion Met **Analysis**: After reviewing data in AMTG 1030 and AMTG 1040 it has been determined that all criteria has been met, and the necessary knowledge and skills have been acquired. **How did the previous cycle's improvement plan impact the data above?**: The improvement plan from last cycle did help maintain proficiencies in the course. **Improvement Plan**: Due to consistently high Assessment Results, Administration/Dean will meet with faculty in program to determine if an increase to the criterion percentage is needed.