

CENTRAL NEW MEXICO COMMUNITY COLLEGE
ASSESSMENT REPORT
Due to SAAC by September 30

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:			
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Academic Year	Contact Person	Email	Phone Number

Subject of this Assessment Report:		
Program: Aviation Maintenance Technology <input checked="" type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS	Gen Ed Area: _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	Discipline Area: Airframe Certificate

PART 2: EVIDENCE OF ACHIEVEMENT OF PROGRAM OUTCOMES

Summary of Program Success in Achieving Desired Outcomes:
Data Results Period upon which this Action Plan is based (period which ended 6/30/14): <ol style="list-style-type: none">1. General written test results from Spring 2013.2. Airframe written test results from Spring 2013. <p>These test results were obtained from the final exams over General and Airframe at the school. In order to receive the certificate from the FAA students are required to take the written exam from a third party FAA approved facility. The test with the FAA has a small percentage of questions that are different from the standardized study questions available; typically students perform 5%-10% lower on the FAA exam as a result.</p>

Description and Evaluation of Recent Changes Made in Support of Student Learning:
Recent changes to improve students learning include the following formal methods: written quizzes, homework questions based on the lecture material, and group participation. Informal methods include: asking students practical questions in lab and offering various projects after hours.

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING PROCESSES

Learning Outcome(s)/Exit Competencies Assessed: <i>To add rows: right –click in cell below and select “Insert,” “Insert Rows Above”</i>	Classes/Cohorts Assessed:
General Written Test	Spring 2013
Airframe Written Test	Spring 2013

Measurement Tool(s) Used: <i>To add rows: right –click in cell below and select “Insert,” “Insert Rows Above”</i>	<i>Enter X's for type of tool</i>				Initial Achievement Target or Expectation:
	Internal	External	Direct	Indirect	
General Written Test	X		X		Average 84%
Airframe Written Test	X		X		Average 84%
General & Airframe Oral & Practical		X	X		Pass rate of 90%

Assessment Results/Findings:
<p>The following are the average grade and the pass rate of the written finals taken at the school before graduation:</p> <ol style="list-style-type: none"> 1. General Written Test Results: Spring 2013 Average Score 87.8%, Pass rate 18/20 Students = 90%. 2. Airframe Written Test Results: Spring 2013 Average Score 86.3%, Pass rate 18/20 Students = 90%.

Analysis and Interpretation of Assessment Results/Findings:
<p>The above mentioned written tests show an improvement in testing over the previous year as follows:</p> <ol style="list-style-type: none"> 1. General Written results showed a 3.1% increase from an average of 84.7% to 87.8%. 2. Airframe Written results showed a 2.4% increase from an average of 83.9% to 86.3%. <p>This increase can be attributed to added written quizzes, homework questions based on the lecture material, and group participation instituted to classes preceding these written exams.</p>

Action Plan in Support of Student Learning:

The AVMT program is regulated by Part 147 of the code of Federal Regulations. Under this regulation, students are required to take a written test over the General and Airframe subject areas and within these areas they are subdivided and tested in each area as follows:

GENERAL

BASIC ELECTRICITY, AIRCRAFT DRAWINGS, WEIGHT AND BALANCE, FLUID LINES AND FITTINGS, MATERIALS AND PROCESSES, GROUND OPERATION AND SERVICING, CLEANING AND CORROSION CONTROL, MATHEMATICS, MAINTENANCE FORMS AND RECORDS, BASIC PHYSICS, MAINTENANCE PUBLICATIONS, AVIATION MECHANIC PRIVILEGES AND LIMITATIONS.

AIRFRAME

WOOD STRUCTURES, AIRCRAFT COVERINGS, AIRCRAFT FINISHES, SHEET METAL AND NON-METALLIC STRUCTURES, WELDING, ASSEMBLY AND RIGGING, AIRFRAME INSPECTION, AIRCRAFT LANDING GEAR SYSTEMS, HYDRAULIC AND PNEUMATIC POWER SYSTEMS, CABIN ATMOSPHERE CONTROL SYSTEMS, AIRCRAFT INSTRUMENT SYSTEMS, COMMUNICATION AND NAVIGATION SYSTEMS, AIRCRAFT FUEL SYSTEMS, AIRCRAFT ELECTRICAL SYSTEMS, POSITION AND WARNING SYSTEM, ICE AND RAIN CONTROL SYSTEMS, FIRE PROTECTION SYSTEMS.

Within each of these subject areas the FAA approves the curriculum containing both the academic work as well as the practical projects. The goal the Aviation Technology program is to keep revising that curriculum, with FAA approval, to better achieve improved test performance.

Recommendations, Proposals, and/or Funding Requests:

As it is an ongoing process, the recommendation for the upcoming cycle year is to continue improving the curriculum by including more questions and project emphasizing the requirements set by the FAA and new industry trends. This process requires continual approval from the FAA. Some areas, which can use improved projects, are Basic Electricity and Composites, as the Aviation Industry is requiring increasingly more competent mechanics in these areas. Improved electrical trainers, which are aviation specific, would greatly help in this area.

PART 4: EMBEDDED OUTCOMES

Critical Thinking and Life Skills/Teamwork Development within Programs:
a) Please describe how Critical Thinking assessment is embedded within your program assessment.
b) Please describe how Life Skills/Teamwork assessment is embedded within your program assessment.
a) Critical Thinking assessment is embedded in written exams and practical projects where students are expected to analyze and interpret blueprints and system descriptions and troubleshoot various problems.
b) Life Skills include maintaining 90% attendance as required by the FAA. Teamwork assessment is required during practical projects, students work with one partner or a small group to finish the assigned project.

PART 5: ASSESSMENT CYCLE PLAN (Copy and paste from original plan if unchanged)

Plan Description:
<p>The Aviation Maintenance Technology (AVMT) program consists of two separate certifications combined into one, airframe and/or powerplant. CNM also has certificate programs for the airframe or powerplant as separate entities. The FAA (Federal Aviation Administration) requires both the Airframe and Powerplant certification to have completed the general maintenance curriculum. FAA exams consist of written, oral and practical tests. The FAA does not recognize any passing grade less than 70%.</p> <p>Upon completion of the AVMT program as demonstrated by a graduation diploma or certificate, the student will be eligible to take the FAA (Federal Aviation Administration) written, oral and practical exam. An independent third party agent administers the written exams. The FAA mandates this for conflict of interest reasons. The General written consists of 60 questions, the airframe and powerplant consists of 100 questions each. The written tests are taken at FAA licensed facility and are computer administered and graded. An FAA designated examiner administers the oral and practical exams. The applicant is given the oral test without reference. In the general section, there is a minimum of 48 oral questions to a maximum of 120 questions asked. The airframe section has a minimum of 68 to a maximum of 170 questions. A 70% must be obtained in order to pass. The practical exams consist of the following projects: General; 22 projects with 9 that must be passed with a 100%. Airframe; 24 projects with 7 that must be passed with a 100%. A 70% must be obtained in order to pass.</p>

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. FAA General Written Exam	End of the fourth term	Approved FAA test facility	Standardized Multiple Choice Questions
2. FAA Airframe Written Exam	End of the fourth term	Approved FAA test facility	Standardized Multiple Choice Questions
3. FAA General and Airframe Oral & Practical	End of the fourth term	Designated Maintenance Examiner	FAA Practical Test Standards
4. General Written Final	End of the fourth term	CNM	Standardized Multiple Choice Questions
5. Airframe Written Final	End of the fourth term	CNM	Standardized Multiple Choice Questions