

**CENTRAL NEW MEXICO COMMUNITY COLLEGE**  
**ASSESSMENT REPORT**  
*Due to SAAC by October 15*

**PART 1: CONTACT & PROGRAM IDENTIFICATION**

Report Year and Contact Information			
Summer 16 –			
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Academic Year	Contact Person	Email	Phone Number

Subject of this Assessment Report		
<b>Program:</b> AVIATION MAINTENANCE TECHNOLOGY <input type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS	<b>Gen Ed Area:</b> _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	<b>Non-Award, Non-Gen-Ed Discipline Area:</b> _____

**PART 2: THE YEAR IN RETROSPECT**

Program/Area Highlights (Including, wherever applicable, course completion, job placement, and licensing examination information)
<ol style="list-style-type: none"> <li>1. AVMT Fall 2016 Graduates: 11 Airframe Certificates (CNM)</li> <li>2. AVMT Summer 2017 Graduates: 12 Airframe Certificates (CNM)</li> <li>3. AVMT Summer 2017 Graduates: 10 Powerplant Certificates (CNM)</li> <li>4. From 2008 to Current, 314 students have completed the AAS AVMT Degree. Of those 314 students, 241 Students have received the Airframe and Powerplant Certificate with the Federal Aviation Administration (FAA).</li> <li>5. Local employers in the last year who have hired CNM AVMT students are: Bode Aviation, Del Sol Aviation, 10 Tanker, Aero Mechanical Industries, US Customs, Ameriflight, Eclipse Aerospace, and AerSale.</li> <li>6. Skills USA: in the summer of 2017, CNM’s AVMT student placed third at the National Aviation Maintenance Competition. Our best result in the history of the program.</li> </ol>

<b>Changes Made in Support of Student Learning</b>
1. Updated testing format: essay question and short answer. Instructors sharing testing material on Sharepoint.
2. Students providing textbook references for project questions.
3. Collaborative group learning techniques to prepare for FAA exams. Individual readiness assurance testing (IRAT) and Group readiness assurance testing (GRAT) to offer multi-modal learning techniques including reading, writing, speaking, and practical application in order to prepare the students for the written and FAA oral and practical (O&P) exams.
4. Error Sheets. Students provide corrections to quizzes and exams as a homework assignment to improve understanding of the material by stating why an answer is incorrect, explaining why correct answer is correct, and providing a textbook reference.

**PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING**

<b>Student Learning Outcome(s) Assessed</b> <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	<b>Classes/Cohorts Assessed</b>
General Written Exam	Fall 2016 and Summer 2017 Cohorts, internal and external assessments.
Airframe Written Exam	Fall 2016 and Summer 2017 Cohorts, internal and external assessments.
Powerplant Written Exam	Summer 2017 Cohort Internal. 2016 External assessment.

Measurement Tool(s) Used <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	Enter X's for type of tool				Initial Achievement Target or Expectation
	Internal	External	Direct	Indirect	
General Written Exam	X		X		Average 82%
Airframe Written Exam	X		X		Average 85%
Powerplant Written Exam	X		X		Average 84%
General Written Exam		X	X		Average 80%
Airframe Written Exam		X	X		Average 77%
Powerplant Written Exam		X	X		Average 82%

Assessment Findings
<p>The following are the average grades and pass rates of the written finals taken at CNM (internally) and with the FAA (externally):</p> <ol style="list-style-type: none"> <li>1. General Written Exam F16 &amp; SU17 (CNM, internal): F16 Average Score 79.2%, Pass Rate 12/13. SU17 Average Score 84.7%, Pass rate 8/9.</li> <li>2. Airframe Written Exam F16 &amp; SU17 (CNM, internal): F16 Average Score 84.2%, Pass Rate 13/13. SU17 Average Score 86.8%, Pass rate 9/9.</li> <li>3. Powerplant Written Exam SU17 (CNM,internal): SU17 Average Score 84.3%, Pass Rate 11/11.</li> <li>4. General Written Exam SU16 to SU17 (FAA, external): Average Score 80%, Pass Rate 6/6.</li> <li>5. Airframe Written Exam SU16 to SU17 (FAA, external): Average Score 76.6%, Pass Rate 5/7.</li> <li>6. Powerplant Written Exam SU16 to SU17 (FAA, external): Average Score 82%, Pass Rate 5/5.</li> </ol>

### Analysis and Interpretation of Assessment Findings

1. General Written Exam Analysis. Internally at CNM the average score for the written exam for this assessment cycle is 82% with a total pass rate of 20 out of 22 students. Out of those students who passed the written exams at CNM, 6 students went on to test with the FAA producing an average score of 80% and a pass rate of 100% (6/6). In comparison with the 2016 National Average published by the FAA the average score nationwide is 80.7% and CNM scored 80% this cycle.
2. Airframe Written Exam Analysis. Internally at CNM the average score for the written exam for this assessment cycle is 85% with a total pass rate of 22 out of 22 students. Out of those students who passed the written exams at CNM, 7 students went on to test with the FAA producing an average score of 76.6% and a pass rate of 71% (5/7). In comparison with the 2016 National Average published by the FAA the average score nationwide is 79.8% and CNM scored 76.5% this cycle.
3. Powerplant Written Exam Analysis. Internally at CNM the average score for the written exam for this assessment cycle is 84.3% with a total pass rate of 11 out of 11 students. Out of those students who passed the written exams at CNM, 5 students went on to test with the FAA producing an average score of 82% and a pass rate of 100% (5/5). In comparison with the 2016 National Average published by the FAA the average score nationwide is 76.8% and CNM scored 82% this cycle.

As far as the number of students who test with the FAA and earn the Airframe and Powerplant (A&P) license after completing the AAS at CNM, over a 10-year period, 77% (241/314) students passed and received the A&P license. For this assessment cycle, those numbers will not be fully reflected until next year when the FAA publishes the written exam results for the Summer of 2017. The students who completed the program for this assessment cycle will finish the AAS next cycle since the general education classes are scheduled to be completed in December of 2017.

### Action Plan in Support of Student Learning

This is the first cycle where students have completed the program under the new curriculum. Although the FAA written test scores have remained approximately the same, the feedback from industry has been more positive in regards to soft skills such as punctuality, professionalism, and researching reference material. To improve written test scores with the FAA, the AVMT program changed the book kit to include improved textbooks and practice software to prepare for the exams which will be seen in upcoming cycles.

*Please indicate with an X all of the following that characterize the types of changes described in the above action plan:*

- |   |  |   |  |
|---|--|---|--|
| <input type="checkbox"/> Pedagogical change     | <input checked="" type="checkbox"/> Course revision              | <input type="checkbox"/> Process revision             | <input checked="" type="checkbox"/> Curricular revision  |
| <input type="checkbox"/> Budgetary reallocation | <input checked="" type="checkbox"/> Faculty training/development | <input type="checkbox"/> Assessment criteria revision | <input type="checkbox"/> Assessment methodology revision |

**Recommendations, Proposals, and/or Funding Requests**

This upcoming cycle marks the 10-year anniversary of the AVMT program and some of the equipment which supports the approved curriculum is aging. The program is seeking to equipment replacement of a single engine aircraft which will supports FAA approved projects in the General, Airframe, and Powerplant classes.

**PART 4: ASSESSMENT CYCLE PLAN UPDATE** (Copy and paste from original plan if unchanged)

Cycle Years	Description of Changes Made (if applicable)
2016-2021	

Student Learning Outcomes:	When Measured:	Where Measured:	How Measured:
1. FAA General Written Exam	After the third term	Approved FAA test facility	Standardized Multiple Choice Questions
2. FAA Airframe Written Exam	After the third term	Approved FAA test facility	Standardized Multiple Choice Questions
3. FAA Powerplant Written Exam	After the fifth term	Approved FAA test facility	Standardized Multiple Choice Questions
4. FAA General and Airframe Oral & Practical	After the third term	Designated Maintenance Examiner	FAA Practical Test Standards
5. FAA Powerplant Oral & Practical	After the fifth term	Designated Maintenance Examiner	FAA Practical Test Standards
6. General Written Final	End of the third term	CNM	Standardized Multiple Choice Questions
7. Airframe Written Final	End of the third term	CNM	Standardized Multiple Choice Questions
8. Powerplant Written Final	End of the fifth term	CNM	Standardized Multiple Choice Questions
9. General, Airframe, Powerplant Practical Projects	First through fifth term	CNM	FAA Approved Projects/Curriculum