

CNM ANNUAL STUDENT LEARNING ASSESSMENT REPORT

Due to the Student Academic Assessment Committee by October 15



PART 1: REPORT INFORMATION

Report Year and Contact Information			
<u>2018-2019</u> Academic Year	<u>Jeremy Frick</u> Contact Person	<u>Jfrick4@cnm.edu</u> CNM Email	<u>50287</u> CNM Office Extension

Subject of this Report
AT--AMTECH_AAS--Aviation Maintenance Technology Degree

PART 2: CONTEXT IN WHICH THE ASSESSMENT TOOK PLACE

Program/Area Highlights and Successes
(Wherever applicable, include course completion rates, job placement outcomes, and licensing examination pass rates. See the program information dashboard at https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx (access restricted to CNM employees) and other reports at https://www.cnm.edu/depts/opie .)
<ol style="list-style-type: none">1. AVMT Fall 2018: 17 Students completed the General Curriculum.2. AVMT Summer 2018 Graduates: 12 Airframe Certificates.3. AVMT Spring 2019 Graduates: 7 AAS, 10 Powerplant Certificates4. AVMT Summer 2019 Graduates: 8 Airframe Certificates5. AVMT Graduating Cohort of Spring 2019: 4/11 students employed before graduation.

Changes Implemented During the Past Year in Support of Student Learning
<ol style="list-style-type: none">1. The FAA granted an exemption for our students to be able to test after the General Curriculum courses are completed.2. Powerplant Curriculum updated. The required attendance time moved between Powerplant classes to meet the actual time requirements of the students in the lab.

PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING

Assessment Method	Type of Assessment Tool	Population or Course(s) Assessed	Graduate Learning Outcome(s) Assessed	Mastery Level (E.g., "Minimum score of 3 on a rubric scaled 0-4" or "Minimum score of 75%")	Targeted % Achieving Mastery	Outcome
Written Exam	Direct & Internal	AVMT 1145 & General Courses	General	Minimum score of 70%	92%	N/A
Written Exam	Direct & Internal	AVMT 1145 & Airframe Courses	Airframe	Minimum score of 70%	50%	N/A
Written Exam	Direct & Internal	AVMT 1345 & Powerplant Courses	Powerplant	Minimum score of 70%	100%	Target met
FAA Written Exam	Direct & External	AVMT 1145 & General Courses	General	Minimum score of 70%	89%	Target met
FAA Written Exam	Direct & External	AVMT 1145 & Airframe Courses	Airframe	Minimum score of 70%	86%	Target not met
FAA Written Exam	Direct & External	AVMT 1345 & Powerplant Courses	Powerplant	Minimum score of 70%	100%	Target met
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Summary of Assessment Findings

1. General Written Exam (CNM, Internal): Summer 2018, Average: Data Not Available, Pass Rate 11/12. Summer 2019 Average: Data Not Available, Pass Rate: 17/23.
2. Airframe Written Exam (CNM, Internal): Summer 2018, Average Score 77%, Pass Rate 11/12. Summer 2019, Average: Data Not Available, Pass Rate: 8/17.
3. Powerplant Written Exam (CNM, Internal): Spring 2019, Average Score 86.1%, Pass Rate 11/11.
4. General Written Exam (FAA, External): 2018 (Q3&Q4) -2019 (Q1&Q2), Average Score 80%, Pass Rate 8/9.
5. Airframe Written Exam (FAA, External): 2018 (Q3&Q4) - 2019 (Q1&Q2), Average Score 78%, Pass Rate 6/7.
6. Powerplant Written Exam (FAA, External): 2018 (Q3&Q4) - 2019 (Q1&Q2), Average Score 84%, Pass Rate 8/8.

Interpretation of Assessment Findings

1. General Written Exam Analysis. Internally at CNM the average score data for the written exam for this assessment cycle is not available, different testing methods were used. Out of those students who passed the General courses at CNM, 9 students went on to test with the FAA producing an average score of 80% and a pass rate of 89% (8/9). In comparison with the 2018 National Average published by the FAA the average score nationwide is 76.4% and CNM Students averaged 80% with the FAA. Nationally, pass rates are 85% and CNM students' pass rates are 100%
2. Airframe Written Exam Analysis. Internally at CNM the average score for the Summer 2018 written exam is 77% with a total pass rate of 11 out of 12 students. For Summer 2019, the written test data was not available and the pass rate for the Airframe Classes is 50% (8/17) students. Out of those students who passed at CNM, 6 students went on to test with the FAA producing an average score of 78% and a pass rate of 86% (6/7). In comparison with the 2018 National Average published by the FAA the average score nationwide is 79.83% and CNM Students averaged 78%. Nationally, pass rates nationwide are 90% and 79% of CNM students passed this cycle.
3. Powerplant Written Exam Analysis. Internally at CNM the average score for the written exam for this assessment cycle is 86.1% with a total pass rate of 100% (11/11) students. Out of those students who passed the written exams at CNM, 8 students went on to test with the FAA, producing an average score of 84% and a pass rate of 100% (8/8). In comparison with the 2018 National Average published by the FAA the average score nationwide is 76.84% and CNM students averaged 84% with the FAA. Nationally, pass rates nationwide is 86% and 100 % of CNM students passed this cycle.

Internal Interpretation: For General and Airframe, Data was not available for the internal written tests. The students were tested by other means and indicated by N/A under the 'outcome' column. For the Airframe internal of “% of target achieving mastery” refers to retention rates for that cohort of students. Retention was low for the 2019 Airframe Cohort.

External Interpretation: The targets for external measurements were met for General and Powerplant. These scores were above the national average for both the scores and pass rates. The Airframe external measurements did not meet the target. Airframe scores are below the national average for scores and pass rates.

Action Plan in Support of Student Learning (Describe changes to be made that are based at least in part on the assessment interpretation. If the assessment did not yield useful information, describe changes to be made in the assessment methodology and/or criteria.)

This is the third cycle where students have completed the program under the new curriculum. Discussions are taking place within the department on how to improve internal testing to increase student retention and improve FAA test scores. Current testing can incorporate more of the standardized FAA questions within the internal exams to expose students to the same questions on the FAA standardized exam.

This is the first year which our program was able to use a waiver from the FAA for students to test early for the General exam. Nine students were able to test early with the FAA as a result. Previously, as is standard practice with the FAA, our students had to wait until the completion of the Airframe Certificate, the third term, to test for the General written exam. This waiver allowed students to test after completion of the General courses, the first term, which will making testing for the Airframe Certificate more achievable.

Please select all of the following that characterize the types of changes described in the above action plan:

- | | | |
|---|---|--|
| <input type="checkbox"/> Assessment criteria revision | <input checked="" type="checkbox"/> Assessment methodology revision | <input type="checkbox"/> Assignment revision |
| <input type="checkbox"/> Budgetary reallocation | <input checked="" type="checkbox"/> Change in teaching approach | <input type="checkbox"/> Course content revision |
| <input type="checkbox"/> Curricular Revision | <input type="checkbox"/> Faculty training/development | <input type="checkbox"/> Process revision |

Recommendations, Proposals, and/or Funding Requests	Budget Needed
None.	N/A

PART 4: REMAINING YEARS IN CURRENT ASSESSMENT CYCLE PLAN (including any revisions) – **OR -- UPCOMING ASSESSMENT CYCLE PLAN** (if this was the final year)

Years of Full Cycle	Next Year's Assessment Focus (Describe how the next planned assessment is expected to provide information that can be used toward improving student learning.)
2016-2021	Next year's assessment cycle we will look at internal testing methods and student retention.

Graduate Learning Outcomes to Be Assessed	Years in which Assessment Is Planned	Population/Courses to Be Assessed	Planned Assessment Approach
FAA General Written Exam	2016 - 2021	General Curriculum	Standardized Exams
FAA Airframe Written Exam	2016 - 2021	Airframe Certificate	Standardized Exams
FAA Powerplant Written Exam	2016 - 2021	Powerplant Certificate	Standardized Exams
General Written Final Exam	2016 - 2021	General Curriculum	Standardized Exams
Airframe Written Final Exam	2016 - 2021	Airframe Certificate	Standardized Exams
Powerplant Written Final Exam	2016 - 2021	Powerplant Certificate	Standardized Exams
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