

**CENTRAL NEW MEXICO COMMUNITY COLLEGE**  
**ASSESSMENT REPORT-Part I**  
**Assessment Data Results**

The purpose of this form is to provide a written summary of your assessment results for the current assessment cycle.

Summer 2012 – Spring 2013  
 (Assessment Period Covered)

06/05/2013  
 (Date Report Submitted)

Jeremy Frick, jfrick4@cnm.edu  
 (Contact Person/email/phone)

**Choose ONE of the following 3 areas for this assessment report and insert the name of the general education area, certificate, degree or discipline on the appropriate line:**

**See definitions for each category in Assessment Process document**

<b>Gen Ed Area</b> (see definitions) _____  AA/AS <input type="checkbox"/> AAS <input type="checkbox"/>  <b>Or Discipline Area</b> (see definitions) _____	or	<b>Program</b>  Certificate AA/AS AAS	<b>Airframe Maintenance Technician</b> _____  <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Outcome(s) assessed: 1. General written test results from summer 2012 and spring 2013. 2. Airframe written test results from summer 2012 and spring 2013 3. Powerplant test results from spring 2012.			
Classes/Cohort Assessed: Morning, Afternoon, and Evening cohorts.			
Measurement tool(s): General, Airframe, and Powerplant written finals taken at school.			
Type of tool (for each tool listed above, indicate type of tool): Direct, external.			

Achievement Target (if more than one measurement tool, list target for each tool separately):

1. General Written Exam: Average score of 80% with a 90% pass rate.
2. Airframe Written Exam: Average score of 80% with a 90% pass rate.

Assessment Results/Findings (if more than one measurement tool, list results for each tool separately):

1. General Written Test Results: Summer 2012 Average Score 84.7%, Pass rate 16/16 Students = 100%.  
Spring 2013 Average Score 87.8%, Pass rate 18/20 Students = 90%.
2. Airframe Written Test Results: Summer 2012 Average Score 83.9%, Pass rate 16/16 Students = 100%.  
Spring 2013 Average Score 86.3%, Pass rate 18/20 Students = 90%.
3. Powerplant Written Test Results: Spring 2012 Average Score 83.6%, Pass rate 18/19 Students = 95%.

**CENTRAL NEW MEXICO COMMUNITY COLLEGE  
ASSESSMENT REPORT – Part II  
Action Plan & Assessment Plan Update**

The purpose of this form is to provide a written summary of your assessment action plan for the designated assessment cycle and provide an updated assessment cycle plan for the current 5-year cycle

Summer 2012 – Spring 2013  
 (Report Period)  
 \_\_\_\_\_  
 Jeremy Frick, jfrick4@cnm.edu  
 \_\_\_\_\_  
 (Contact Person/email/phone)

09/16/2013  
 \_\_\_\_\_  
 (Date Report Submitted)

Indicate **ONE** of the following **3** areas for this assessment report and insert the name of the general education area, certificate, degree or discipline on the appropriate line:

See definitions for each category in Assessment Process document

<b>Gen Ed Area</b> (see definitions) _____  AA/AS <input type="checkbox"/> AAS <input type="checkbox"/>	or	<b>Program</b> Airframe Maintenance Technician _____  Certificate <input checked="" type="checkbox"/> AA/AS <input type="checkbox"/> AAS <input type="checkbox"/>
<b>Or Discipline Area</b> (see definitions) _____		

Data Results Period upon which this Action Plan is based (period which ended 6/30/xx):

1. General written test results from Summer 2012 and Spring 2013.
2. Airframe written test results from Summer 2012 and Spring 2013.
3. Powerplant test results from Spring 2012.

These test results were obtained from the final exams over General, Airframe, and Powerplant at 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. Results from the General, Airframe, and Powerplant from the FAA for this cycle have not been posted yet. The above written results are from the final taken at school and the results are posted under Part I of the assessment cycle as follows:

1. General Written Test Results: Summer 2012 Average Score 84.7%, Pass rate 16/16 Students = 100%.  
Spring 2013 Average Score 87.8%, Pass rate 18/20 Students = 90%.
2. Airframe Written Test Results: Summer 2012 Average Score 83.9%, Pass rate 16/16 Students = 100%.  
Spring 2013 Average Score 86.3%, Pass rate 18/20 Students = 90%.
3. Powerplant Written Test Results: Spring 2012 Average Score 83.6%, Pass rate 18/19 Students = 95%.

Action Plan (close the loop):

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, Airframe, and Powerplant 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.

**POWERPLANT**

RECIPROCATING ENGINES, TURBINE ENGINES, ENGINE INSPECTION, ENGINE INSTRUMENT SYSTEMS, ENGINE FIRE PROTECTION SYSTEMS, ENGINE ELECTRICAL SYSTEMS, LUBRICATION SYSTEMS, IGNITION AND STARTING SYSTEMS, FUEL METERING SYSTEMS, ENGINE FUEL SYSTEMS, INDUCTION AND ENGINE AIRFLOW SYSTEMS, ENGINE COOLING SYSTEMS, ENGINE EXHAUST AND REVERSER SYSTEMS, PROPELLERS.

Once results are posted by the FAA for the Summer 2012 to Spring 2013 written test results, performance for the each subject will be posted according to the national average. The action plan is to focus on any areas at or below the national average. Until those results are posted the average score for the school exams under Part I will focus on increasing the written average in General, Airframe, and Powerplant.

## ASSESEMENT PLAN

The assessment plan includes three parts:

1. **The plan description** (This should be a brief written description of the assessment plan(s) for the area/certificate/degree/discipline. If all outcomes are not shown in item #3 below as assessed in the 5 year cycle, this description must include information about their eventual assessment)
2. **The student learning outcomes for the area/program/discipline** for the 5 year cycle.
3. **The assessment cycle timeline**

### 1 Plan Description

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 either the Airframe or Powerplant certification, but either must complete a general maintenance curriculum. FAA exams consist of written, oral and practical tests. The FAA does not recognize any passing grade less than 70%.

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 test proctor. All tests are computer administered and graded. An FAA designated examiner administers the oral and practical exams. The oral and practical exams are given onsite at CNM. 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. Powerplant has a minimum of 60 to a maximum 150 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%. Powerplant; 23 projects with 8 that must be passed with a 100%. A 70% must be obtained in order to pass with the exception of the 32 that require a 100% to pass. Also the Students are graded on safety and basic aviation standard shop practices.

**2 Provide the list of current student learning outcomes for this area or program (you may add more lines if necessary by right clicking and choosing insert row below):**

1	Retain 90% of the Students for the Airframe Certificate for graduation
2	Retain 90% of the Students for the Powerplant Certificate for graduation
3	Pass the General Written exam with an 80% or better
4	Pass the Airframe Written exam with an 80% or better
5	Pass the Powerplant Written exam with an 80% or better
6	85% of the students pass the General and Airframe Oral and Practical exam
7	85% of the students pass the Powerplant Oral and Practical exam

**3 Assessment Cycle timeline for the above student learning outcomes for the next five years.**

Outcome #	When Measured	Where measured (i.e. what course(s))	Measurement tool(s) & Type of tool
1	Summer 2014, 2015, 2016, 2017, 2018	AVMT 1240, 1261, 1271, 1280, 2220, 2225, 2231, 2236, 2240, 2243, 2245	Retention rate 90%
2	Spring 2014, 2015, 2016, 2017, 2018	AVMT 2250, 2393L, 2096, 2265, 2196, 2270, 2275, 2280	Retention rate 90%
3	Summer 2014, 2015, 2016, 2017, 2018	AVMT 1240, 1261, 1271, 1280, 2220, 2225, 2231, 2236, 2240, 2243, 2245	FAA Standardized written exams
4	Summer 2014, 2015, 2016, 2017, 2018	AVMT 1240, 1261, 1271, 1280, 2220, 2225, 2231, 2236, 2240, 2243, 2245	FAA Standardized written exams
5	Spring 2014, 2015, 2016, 2017, 2018	AVMT 2250, 2393L, 2096, 2265, 2196, 2270, 2275, 2280	FAA Standardized written exams
6	Summer 2014, 2015, 2016, 2017, 2018	AVMT 1240, 1261, 1271, 1280, 2220, 2225, 2231, 2236, 2240, 2243, 2245	FAA General and Airframe Practical Test standards document
7	Spring 2014, 2015, 2016, 2017, 2018	AVMT 2250, 2393L, 2096, 2265, 2196, 2270, 2275, 2280	FAA Powerplant Practical Test standards document