

AVIATION MAINTENANCE TECHNOLOGY CERTIFICATE PROGRAM

The Aviation Maintenance Technology (AMT) certificate program prepares students for careers in aircraft maintenance and repair. The program philosophy stresses a combination of knowledge, skills, and practical experience in accordance with Federal Aviation Regulations. Upon successful completion, a student will be prepared for Federal Aviation Administration (FAA) oral, practical, and written examinations. Once certificated by the FAA, a graduate is qualified to perform duties and responsibilities of an Airframe and Powerplant (A&P) mechanic.

FAA Air Agency Certificate 1CVT581K

GENERAL INFORMATION

Aviation Maintenance Technology is a two year program that emphasizes aircraft maintenance theory and practical application necessary for successful employment in the field. Areas of instruction include aircraft electrical, electronic, hydraulic, pneumatic, and mechanical systems as well as maintenance, application, and troubleshooting.

ADMISSIONS PROCEDURES

1. A maximum of 24 students are accepted each Spring and Fall Quarters.
2. Applicants must be at least 16 years of age and have a high school diploma or GED.
3. Submit an application form, \$15 application fee, and a certified copy of a high school transcript or GED.
4. Schedule a time to take the COMPASS placement exam or submit recent SAT scores.
5. Transfer students may apply, but previous course work will be evaluated for credit on an individual basis.

ESTIMATED COSTS

- \$4500 Tuition for entire program (8 quarters/full-time)
- \$ 35 Instructional/Technology Fee quarterly*
- \$ 100 Books quarterly (full-time)
- \$ 70 Uniform Rental Fee quarterly*

Students will also have to purchase required tools during first quarter and these vary depending on brand and location purchased.

(*These fees are not covered by HOPE)

FINANCIAL AID

HOPE Grant and Scholarship, PELL Grant, Veterans Aid benefits and other programs (loans, WIA, & scholarships) are available to eligible students. Contact the financial aid office for more information.

JOB PLACEMENT

Placement services are available to all students through training support for workforce development that prepares students for employment in the aviation industry. Graduates can obtain employment with airport fixed base operations, charter air services, regional or major airlines, the military, aviation suppliers, manufacturers, and the FAA.

PROGRAM COURSES

Designed as an eight quarter program, AMT will provide 125 credit hours and 2,000 instructional hours. Shorter programs are available for applicants interested in acquiring only an Airframe or Powerplant certificate.

Courses include:

- Aviation Math and Physics
- Aircraft Maintenance Regulations
- Aircraft Electricity and Electronics
- Aircraft Applied Sciences
- Airframe Welding
- Airframe Structures
- Aircraft Sheet Metal and Non-Metallic Structures
- Airframe Assembly and Rigging
- Aircraft Hydraulic and Pneumatic Systems
- Aircraft Landing Gear Systems
- Aircraft Environmental Control Systems
- Electrical, Communication and Navigation Systems
- Airframe Inspections
- Aircraft Reciprocating Engines I and II
- Aircraft Gas Turbine Powerplants I and II
- Aircraft Engine Fuel and Fuel Metering Systems
- Aircraft Engine Electrical, Ignition and Starting Systems
- Aircraft Powerplant Accessory Systems
- Aircraft Engine Inspection

Individuals with disabilities requiring assistance or accommodations for services, programs, or activities should contact Sheila Parker, CVTC ADA and Section 504 Coordinator; Room A-115 on CVTC's Main Campus in Floyd County, One Maurice Culberson Drive, Rome GA 30161, or call 706-295-6517. Mrs. Parker's email is sparker@coosavalleytech.edu. If hearing impaired, call: 1-800-255-0056.



AVIATION MAINTENANCE TECHNOLOGY CERTIFICATE PROGRAM

Curriculum Outline

The curriculum that will be taught by Coosa Valley Technical College is certificated by the FAA and is designed to qualify the students to perform the duties of an airframe and/or powerplant mechanic. The curriculum will offer the following number of hours of instruction per rating:

General	410	General	410	General	410
<u>Airframe</u>	<u>790</u>	<u>Powerplant</u>	<u>800</u>	<u>Airframe</u>	<u>790</u>
<i>Total</i>	<i>1200</i>	<i>Total</i>	<i>1210</i>	<i>Total</i>	<i>2000</i>

Description:

The standard curriculum for the Aviation Maintenance Technology program is set up on the quarter system. This program is designed to provide the students with the technical knowledge and skills required, to troubleshoot and repair aircraft systems, structures, and powerplants, both reciprocating and turbines. After satisfactory completion of all courses, students are eligible to be tested for their FAA Mechanic Certificate with both Airframe and Powerplant ratings.

LENGTH OF PROGRAM:

Five Quarters (daytime "A")
Five Quarters (daytime "P")
Eight Quarters (daytime "A&P")

First Quarter

AMT 100 Aviation Math	Contact Hours
AMT 101 Aircraft Maintenance Regulations	30
AMT 103 Aircraft Electricity & Electronics	50
AMT 121 Aviation Physics	100
	30

Second Quarter

AMT 102 Aircraft Applied Sciences	Contact Hours
AMT 203 Airframe Welding	200
	40

Third Quarter

AMT 201 Aircraft Airframe Structures	Contact Hours
AMT 202 Airframe Sheet Metal & Non-Metallic Structures	50
AMT 204 Aircraft Assembly & Rigging	120
	50

Fourth Quarter

AMT 206 Aircraft Hydraulic & Pneumatic	Contact Hours
AMT 207 Aircraft Landing Gear Systems	50
AMT 208 Aircraft Environment Control Systems	80
	150

Fifth Quarter

AMT 209 Aircraft Electrical, Communication, & Navigation Systems	Contact Hours
AMT 205 Airframe Inspection	150
	100

Sixth Quarter

AMT 221 Reciprocating Engine Powerplant I	Contact Hours
AMT 223 Gas Turbine Powerplant I	50
AMT 226 Aircraft Engine Fuel & Fuel Metering Systems	50
	120



Curriculum Outline (Continued)

Seventh Quarter

AMT 222 Reciprocating Engine Powerplant II
AMT 227 Aircraft Engine Electrical, Ignition, & Starting Systems

Contact Hours

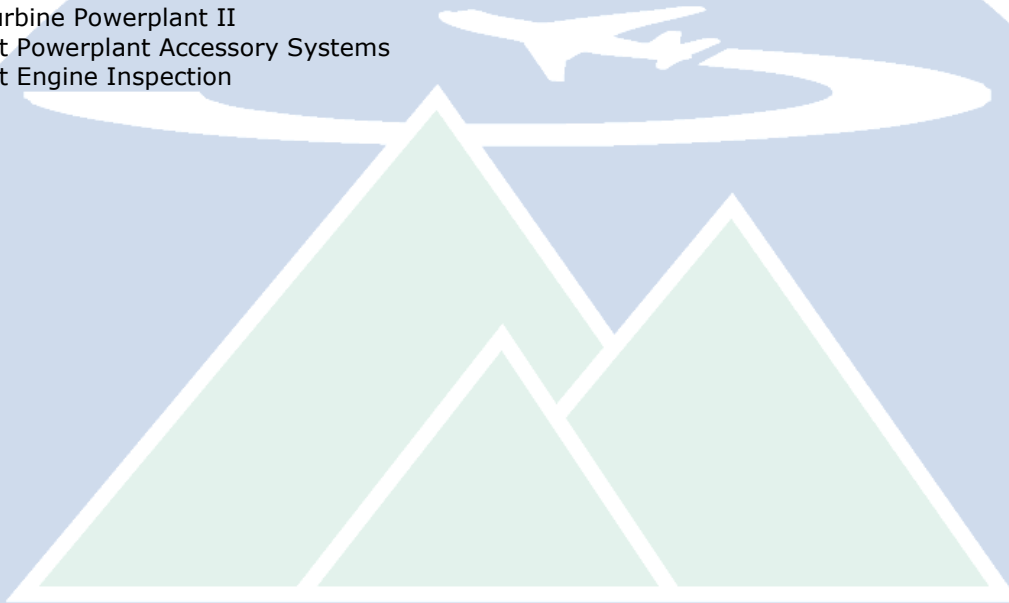
150
150

Eighth Quarter

AMT 224 Gas Turbine Powerplant II
AMT 228 Aircraft Powerplant Accessory Systems
AMT 225 Aircraft Engine Inspection

Contact Hours

100
150
30



CVTC

AVIATION