

## Aviation Maintenance

### The Program

Somerset Community College offers a two-year degree or diploma program in Aviation Maintenance Technology. This program is designed to provide students with a working knowledge in the two major areas of airframe and powerplant. Students will gain the skills needed to inspect, service, and repair airframes and airframe powerplants, including reciprocating and turbine engines and their associated accessories. The facility is located adjacent to the Somerset/Pulaski County Airport, providing students with actual hands-on experiences in an airport environment.

With the rapid growth and technology advancements in the aviation field, there is a huge demand for certified Aviation Maintenance Technicians. These individuals perform a variety of duties to repair and maintain our nation's aircraft. Aviation Maintenance Technicians are responsible for maintaining this vital means of transportation.



Somerset Community College offers a two-year degree or diploma program in Aviation Maintenance Technology. This program is designed to provide students with a working knowledge in the two major areas of airframe and powerplant. Students will gain the skills needed to inspect, service, and repair airframes and airframe powerplants, including reciprocating and turbine engines and their associated accessories. The facility is located adjacent to the Somerset/Pulaski County Airport, providing students with actual hands-on experiences in an airport environment.

Graduates of the program meet eligibility requirements to take Federal Aviation Administration (FAA) certification examinations for both Airframe and Powerplant (A&P) mechanic ratings.

Surveys and studies conducted by the FAA, General Aviation manufacturers Association (FAMA), Future Aviation Professionals Association (FAPA), and Professional Aviation Maintenance Association (PAMA) have projected a shortage of trained technicians during the next decade.

### Graduate Capabilities

Graduates of the Aviation Maintenance Technology Program are capable of inspecting and repairing any aircraft to assure safe operations. This capability demands a thorough understanding of all the components of an aircraft and of the functioning relationships of one component to another. With air safety ultimately dependent upon the skills and integrity of the maintenance staff, students in our Aviation Maintenance program are taught to perform to a no-fault level and assume accountability for all tasks undertaken.



## Credential Options

- Associate of Applied Science in Aviation Maintenance Technology
- Airframe and Powerplant Maintenance Technician (Diploma)
- Airframe Maintenance Technician (Diploma)
- Powerplant Maintenance Technician (Diploma)

## How to Reach Us

### **Somerset Community College**

[www.somerset.kctcs.edu](http://www.somerset.kctcs.edu)

1-877-629-9722

Somerset Campus North  
(606) 679-8501

Somerset Campus South  
(606) 677-4049

Laurel Campus North  
(606) 877-1421

Laurel Campus South  
(606) 877-1421

Clinton Center  
(606) 387-3236

McCreary Center  
(606) 376-5747

Russell Center  
(270) 866-2125

## Program Coordinator

David Deaton 606.451.6772  
davida.deaton@kctcs.edu



# Associate in Applied Science Aviation Maintenance Technology

Course No.	Course Title	Credit Hours
ENG 101	Writing I	3
	Mathematics	3
	Science	3
	Heritage/Humanities	3
	Social Interaction	3
	<b>Total General Education Hours</b>	<b>15</b>

### Other Core Requirements

Computer Competency	1-3
---------------------	-----

### Program Requirements

AMT100	Aviation Math	1
AMT101	Theory Of Flight	1
AMT102	Aircraft Weight & Balance	1
AMT103	Cleaning & Corrosion Control	1
AMT104	Basic Electricity	1
AMT105	Fluid Lnes & Fittings	1
AMT106	Drawing & Blueprint Reading	1
AMT107	Physics	1
AMT108	Ground Handling	1
AMT109	Maintenance Publications	1
AMT111	Mechanics Privileges & Limitations	1
AMT112	Maintance Forms And Records	1
AMT113	Materials & Processes	1
AMT201	Wood Structures	1
AMT203	Aircraft Welding	3
AMT205	Non-Metalic Structures	1
AMT207	Sheet Metal Structures	3
AMT209	Aircraft Covering	1
AMT211	Aircraft Finishes	1
AMT213	Assembly & Rigging	1
AMT215	Airframe Inspection	1
AMT221	Hydraulic Power	2
AMT223	Aircraft Landing Gear	1
AMT225	Aircraft Electrical Systems	2
AMT227	Communication & Navigation Systems	1
AMT229	Aircraft Fuel Systems	1
AMT231	Cabin Atmospheric Control Systems	1
AMT233	Ice & Rain Systems	1
AMT235	Fire Protection Systems	1
AMT237	Position & Warning Systems	1
AMT239	Aircraft Instruments Systems	1
AMT247	Reciprocating Engine Overhaul	4
AMT241	Turbine Engines	3
AMT243	Reciprocating Engine Theory And Operation	1
AMT245	Engine Inspection	4
AMT265	Engine Electrical Systems	1
AMT267	Engine Ignition Systems	1
AMT269	Lubrication Systems	1
AMT271	Propellers	1
AMT251	Engine Fuel Systems Components	1
AMT253	Engine Fuel Metering Systems	1
AMT255	Induction Systems	1
AMT257	Engine Cooling Systems	2
AMT259	Engine Exhaust Systems	1
AMT261	Engine Instrument Systems	1
AMT263	Fire Protection Systems	1
	<b>Total Program Hours</b>	<b>74-76</b>