

AIRFRAME AND AIRCRAFT POWERPLANT MAINTENANCE TECHNOLOGY - DAY (AS DEGREE S0911)

Technology and Health Division Degree S0911

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate in Science degree. Two state-awarded certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and AIRM 65B are equivalent to evening program courses AIRM 95A, AIRM 95B, AIRM 96A, AIRM 96B, AIRM 97A, AIRM 97B, AIRM 98A, and AIRM 98B. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education (<https://catalog.mtsac.edu/programs/degrees-certificates/#gerequisitestext>) coursework plus the following:

Required Courses

Course Prefix	Course Name	Units
AIRM 65A	Aircraft Powerplant Theory	13
AIRM 65B	Aircraft Powerplant Systems	13
AIRM 66A	Aircraft Airframe Maintenance Structures	13
AIRM 66B	Aircraft Airframe Maintenance Systems	13
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3
AIRM 71	Aviation Maintenance Science	6
AIRM 72	Aircraft Materials and Processes	1.5
AIRM 73	Aircraft Welding	1.5
Total Units		67

Recommended Electives

Course Prefix	Course Name	Units
AIRM 74	Aircraft Maintenance Technology - Work Experience	2

AIRM 80	Laboratory Studies in Aircraft Maintenance Technology	0.5
PHYS 1	Physics	4

Aircraft Maintenance Website (<http://www.mtsac.edu/aircraft-maintenance/>)

Guided Pathways of Study Suggested Course Sequence (<https://www.mtsac.edu/guided-pathways/pathway-results.html?pthwyvar=S0911&desc=Airframe+and+Aircraft+Powerplant+Maintenance+Technology%2C+Day%2C+AS++S0911>)

The Airframe and Aircraft Powerplant Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA)

800 Independence Avenue, SW
Washington, DC 20591
1(800) 835-5322
www.faa.gov

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret, and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review [Student Learning Outcomes \(SLOs\)](#) for this program.