

AIRCRAFT POWERPLANT MAINTENANCE TECHNOLOGY- EVENING (CERTIFICATE T0952)

Technology and Health Division Certificate T0952

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. 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.

Successful completion of this program enables students to take the FAA examination in 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 an advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|---------------------|--|-----------|
| Core Courses | | |
| 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 | 2 |
| AIRM 95A | Aircraft Powerplant Theory | 3 |
| AIRM 95B | Aircraft Powerplant Inspection and Maintenance | 3 |
| AIRM 96A | Aircraft Turbine Engines | 3 |
| AIRM 96B | Aircraft Propellers | 3 |
| AIRM 97A | Aircraft Powerplant Instrumentation | 3 |
| AIRM 97B | Aircraft Powerplant Fuel Systems | 3 |
| AIRM 98A | Aircraft Powerplant Ignition Systems | 3 |
| AIRM 98B | Aircraft Powerplant Lubricating Systems | 3 |
| Total Units | | 38 |

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 |

The 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 (<http://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) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.