



Aircraft Technology

accredited by the Federal Aviation Administration (FAA)



AIRCRAFT MAINTENANCE TECHNOLOGY provides both the hands-on experience and the related knowledge to service, repair and overhaul reciprocating and turbine engines and components, powerplant control systems, instrumentation, induction and exhaust systems. Students will work toward the Powerplant license by studying under regulations of the Federal Aviation Administration (FAA).

Work Environment

Students will practice skills in airframe structures and powerplant overhaul, working under very rigid procedures and the close supervision of inspectors. Students will observe strict federal safety rules and regulations.

Career Opportunities

Aviation Lawyer
Aircraft Manufacturer
Airframe & Powerplant Technician
Airline Supervisor
Avionics Technician
Engineering Technician
FAA Maintenance Inspector
Local Utility Powerplant Operator
Military Crew Chief
Repair Station Repairman
Security Specialist

Employment Outlook

Personnel are needed to fill positions in the field of commercial airline and general aviation. Additionally small and intermediate size aircraft are used by private corporate industries, requiring licensed technicians to perform all repairs.

Starting Salary: National average earnings range from \$15–\$20/hour for a 35–40 hour week in general aviation and \$20–\$40/hour in commercial airline field.

Advanced Standing Available*

Dowling College
Embry Riddle Aeronautical University
Pennsylvania College of Technology
Vaughn College of Aeronautics

Check with the Aviation Technical Education Council, further information on post-secondary schools may be provided.

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

Student Supplies (approx \$75)

1. One-piece blue coverall
2. Safety work shoes
3. 6-in. machinist steel scale

Post-Secondary Opportunities

Upon successful completion of the Aircraft Maintenance Technology Program and enrollment in a college or university, students can be granted up to 48 credits because of Federal License Regulations. Wilson Tech has Articulation Agreements offering advance standing with many post-secondary institutions that offer degrees in Aviation Technology and Aeronautical Science.

Academic credits integrated:

See chart, page 26

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Federal Aviation Administration qualifying exam in Aircraft Maintenance—General or Powerplant.

Course Outline

- Federal Aircraft Safety Procedures
- Aircraft Blueprints/Drawings
- Basic Electricity
- Airframe and Powerplant Electrical Systems

- Airframe and Powerplant Hydraulic Systems
- Airframe Structures
- Material & Processes
- Reciprocating and Turbine Engine Repair and Overhaul
- Powerplant Inspection and Operation
- Powerplant Systems and Components

Consider these classes at Tech

- Architectural Design/ CAD
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Aviation Science/ Flight
- Computer Networking & Repair/ Technical Electronics
- Marine & Motor Sports Technology

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Note: In order to meet FAA licensure requirements, students must attend a seven-week summer session. Juniors who can make transportation arrangements and have parental permission may attend immediately after their junior year. The summer session is at no additional cost to districts.