

AVIATION MAINTENANCE TECHNOLOGY



Aviation maintenance technicians keep aircraft in safe flying condition by servicing, repairing and overhauling aircraft components following stringent regulations set forth by the Federal Aviation Administration (FAA). All aircraft are required to undergo thorough inspections and repairs on a regular basis. These services are provided by technicians certified by the FAA. Technicians in this field work on aircraft components and systems including airframe, piston engines, turbine engines, hydraulic systems, propellers, rigging, warning systems, and environmental systems.

Companies in many industries such as aerospace, auto and diesel, racing, and heavy-equipment seek the qualified, detail-oriented skills possessed by aviation maintenance (A&P) technicians. This need opens the opportunities for aviation maintenance technicians to aviation and beyond.



Versatile Skill Set

- Boeing 727 Cockpit Section
- AeroCommander
- C303 Crusader
- Six Cessna C-150s
- Sabreliner for Static Training
- Thirteen Operational Aircraft



Aviation Maintenance Technology (Diploma) · Program Length: 17 months

Associate of Applied Science Aviation Maintenance Technology (Degree) · Program Length: 20 months

(Airframe and Powerplant Mechanic D.O.T. 621.281-014)

The diploma program is designed to teach students the technical skills required to service, repair, and overhaul aircraft components and systems. The knowledge gained through the additional general education courses in the associate degree program enhance the students' background and intellectual proficiency so they are more competitive in their chosen professions. Successful completion qualifies graduates to take the written, oral, and practical tests with the FAA for the Mechanic's Certificate with both Airframe and Powerplant Ratings. The program is FAA Part 147 approved and the skill sets learned will provide for a wide variety of employment opportunities inside and out of the aviation industry; therefore, certification is not required in all areas.

Associate degree graduates are eligible to continue with Spartan's Bachelor of Science Technology Management degree completion program offered online or on campus.

INDUSTRY OUTLOOK

Opportunities appear favorable through 2024 for aircraft mechanics that complete FAA-approved training programs* due to:

- an increase in passenger air traffic
- a need to replace retiring mechanics
- shortage of A&P college graduates

*Bureau of Labor Statistics Occupational Outlook Handbook

Position Examples

- A&P Technician
- Airframe Mechanic
- Jet Engine Technician
- Line Technician
- Sheet Metal Technician
- Composite Specialist
- Helicopter Technician
- Heavy Equipment Technician

Employer Examples

- AAR Aircraft Services
- American Airlines
- Delta Airlines
- Envoy
- General Atomics
- SkyWest Airlines
- SpaceX
- United Airlines
- Lockheed Martin
- Southwest Airlines



Increased Demand for Airline Technicians

More than 648,000 airline maintenance technicians will be needed by 2036.*



Since 1928

Tulsa campuses operate with over 247,000 square feet of training facilities, classrooms, and administrative space located on two Tulsa area airports.

*Boeing: Pilot and Technician Outlook 2017-2036, <http://www.boeing.com/commercial/market/pilot-technician-outlook/>

Tulsa – Main Campus

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