

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.



The Tools to Succeed

- Nearly 40,000 square feet of classroom and lab space
- Over 80 powerplants including two Rolls Royce RB 211-22B turbine engines
- Operational GE Walter 601D turboprop 658 shp
- Cessna 172s, Cessna 152, Lear Jet Model 24D, Falcon 2, and a Beech C-35 Bonanza
- ADSB test system.
- IFR6000 test equipment



INDUSTRY OUTLOOK

Opportunities appear favorable through 2029 for aviation technicians that complete FAA-approved training programs* due to a need to replace retiring mechanics.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Aircraft and Avionics Equipment Mechanics and Technicians, at <https://www.bls.gov/ooh/installation-maintenance-and-repair/aircraft-and-avionics-equipment-mechanics-and-technicians.htm> (visited February 21, 2021).

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

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

The program is designed to teach students the technical skills required to service, repair, and overhaul aircraft components and systems and are applicable to other maintenance industries and professions. Successful completion qualifies graduates to take the written, oral, and practical exams 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 entry-level employment opportunities inside and out of the aviation industry.

Position Examples

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

Employer Examples

- AAR Aircraft Services
- Delta Airlines
- Envoy
- General Atomics
- SkyWest Airlines
- SpaceX
- United Airlines
- Alaska Airlines
- Ball Aerospace
- Duncan Aviation
- Lockheed Martin
- Sierra Nevada Corporation



Demand for Aviation Technicians

According to the 2020-2039 Boeing Pilot and Technician Outlook*, 192,000 new aviation technicians will be needed to maintain the North American fleet over the next 20 years.



The Mile High City

A thriving cultural scene, diverse neighborhoods, and natural beauty combine for the world's most spectacular playground.

*Boeing: Pilot and Technician Outlook 2020-2039, pg 8
<http://www.boeing.com/commercial/market/pilot-technician-outlook/>

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