

AIRFRAME & POWERPLANT



A&P 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, 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.



The Tools to Succeed

- 100,000 sqft of training facilities
- AeroCommander aircraft
- JT8D-17A turbine engine
- T-39 and T-38 aircraft
- Cessna 150 and 172s
- Piper PA-34 Seneca aircraft
- Bell 264 helicopter



Airframe & Powerplant (Diploma) • Program Length: 18 months

Associate of Occupational Studies Aviation Maintenance Technology (Degree) • Program Length: 22 months

(Airframe & 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.

The general education courses in the associate of occupational studies degree program enhance the students' background and intellectual proficiency.

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).

Position Examples

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

Employer Examples

- Delta Airlines
- Envoy
- General Atomics
- SkyWest Airlines
- SpaceX
- United Airlines
- Boeing
- Papillon Grand Canyon Helicopters



Increased Demand for Airline Technicians

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



Los Angeles Area

The LA Area Campus is conveniently located on Aviation Boulevard only about a mile from LAX airport which is also near a large number of aerospace focused companies that employ some of our graduates.

Los Angeles Area Campus
8911 Aviation Blvd., Inglewood, CA 90301
Call 310-579-9434 or visit us online at Spartan.edu

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