

# AVIATION MAINTENANCE TECHNOLOGY



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 throughout many sectors of the aviation industry such as General Aviation, Corporate and Private Airlines, Commercial Airlines, Rotocraft, Manufacturing, Unmanned Aerial Vehicles (Drones) and beyond seek the qualified, detail-oriented skills possessed by aviation maintenance (A&P) technicians. This need opens the opportunities for aviation maintenance technicians to an industry that is always reaching for the sky.



## Versatile Skill Set

- Cessna 172 RG aircraft
- Cessna 310 aircraft
- Turbine powerplants
- Propellers, magnetos and carburetors
- NIDA electrical troubleshooting trainers
- Sheet metal and riveting equipment



## Aviation Maintenance Technology (Diploma) · Program Length: 15 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.

Graduates of the diploma program are eligible to further their education by enrolling into an Associate of Occupational Studies Degree program at the main campus, located in Inglewood, CA.

## 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.



## Historic Flabob Airport

Inland Empire Area campus is located on the historic Flabob Airport in Riverside, California. Founded in 1925, Flabob Airport is Riverside's first civil airport and the seventh oldest surviving airport in California.

\*Boeing: Pilot and Technician Outlook 2020-2039, pg 7  
<http://www.boeing.com/commercial/market/pilot-technician-outlook/>

### Main Campus:

Spartan College of Aeronautics and Technology  
8911 Aviation Boulevard | Inglewood, California 90301  
310-337-4444

### Branch Campus:

Spartan College of Aeronautics and Technology  
4130 Mennes Avenue | Riverside, California 92509  
951-228-9922

Spartan does not guarantee third-party certifications. For more information about our graduation rates and other important information, visit [www.spartan.edu/consumerinformation](http://www.spartan.edu/consumerinformation)

Spartan College of Aeronautics and Technology, Riverside, CA is a branch location of Spartan College of Aeronautics and Technology, Inglewood, CA. Accredited by the Commission of the Council on Occupational Education (COE). Licensed to operate by the California BPPE.