



# Aircraft/Drone Technology

FAR approved to operate as a part 147 school, Member of Aviation Technical Education Council, and Member of Council of Airline Maintenance Managers



AIRCRAFT/DRONE 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). Drone Technology will be incorporated into this program as the aviation industry has a high demand for skilled workers. The focus is on training students toward their FAA Part 107 Drone Pilot Certification by the completion of the 1st year of instruction.

## Work Environment

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

## Career Opportunities

Accident Investigator  
Aviation Lawyer  
Aircraft Manufacturer  
Powerplant Technician  
Engineering Technician  
FAA Airworthiness Inspector  
Military Crew Chief  
Repair Station Repairman  
Security Specialist  
Transportation  
Aerial Film Production  
Field Survey Technician  
Drone Pilot  
Law Enforcement Surveillance

## Advanced Standing Available\*

Embry Riddle Aeronautical University  
Dutchess Community College  
Five Towns College  
Mohawk Community College  
Vaughn College of Aeronautics  
Check with the Aviation Technical Education Council. Further information on post-secondary schools may be provided at: [www.atecamt.org/schoolsmembers.htm/](http://www.atecamt.org/schoolsmembers.htm/)

\*College credits may be earned by meeting the criteria of articulation agreements (see listing in Handbook) Tech has established with SELECT colleges. In addition, check directly with the post-secondary institutions for any additional credits they may offer.

## Post-Secondary Opportunities

Upon successful completion of the Aircraft/Drone Technology Program and enrollment in a college or university, students can be granted up to 64 credits because of Federal License Regulations. Wilson Tech has Articulation Agreements offering advanced standing with many post-secondary institutions that offer degrees in Aviation Technology and Aeronautical Science.

## Academic credits integrated:

Tech Math, Tech Phys Sci, Eng. 12, Art, CFM, Comp App

## CTE Endorsement

Students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, be High School diploma eligible, and pass the following exam: Federal Aviation Administration (FAA) Powerplant Qualification Exam.

## Student Supplies

Additional supplies will need to be purchased for this program.

## Average Annual Wage

Salaries are subject to market fluctuations.  
For the most current updates on local & national wages go to job search engines on the internet and [www.careerzone.ny.gov](http://www.careerzone.ny.gov)

## Course Outline

- Federal Aircraft Safety Procedures
- Powerplant Electrical Systems
- Reciprocating and Turbine Engine Repair and Overhaul
- Powerplant Inspection and Operation
- Powerplant Systems and Components
- Propulsion Theory
- US Airspace Restrictions and Regulations
- Aviation Weather Applications
- FAA Drone Requirements

\*Note: Students have the option of enrolling into the Adult Aviation Maintenance Technology program for an additional three semesters in order to obtain their FAA- Airframe Certification. In order to meet FAA licensure, students must have no more than 10 absences per academic year.