Aircraft Maintenance Technician - Airframe and Powerplant, Cert

Department: School of Applied Sciences, Technology and Education
College: College of Agriculture and Applied Sciences

Overview

About This Degree

The Aviation Technology Maintenance Management degree prepares students with the tools for a career in the aviation maintenance field. Upon completion of the four year Bachelor of Science degree, students will meet the Federal Aviation Administration (FAA) requirements to test for two licenses; airframe maintenance technician and power plant maintenance technician (A&P). This degree also provides graduates with the skills to become managers and leaders in the aviation maintenance industry.

All the required coursework and lab hours (2030 hours total) are built into the major. Many students also complete the management minor. With those licenses, A&P technicians can work in the aviation industry on jet engines, reciprocating engines, airframes, and various aircraft accessories including work with sheet metal, riveting, composite manufacturing and repair, and more. Much of the program consists of hands-on lab work in USU's maintenance management laboratory.

Aircraft maintenance technicians are highly sought after, and students in the program have a high job placement rate after graduation.

Career Options

With the A&P certificate, graduates work as aircraft maintenance technicians. They find employment in the following areas:

- Maintenance technicians for airlines, corporate aviation, general aviation, including helicopter maintenance.
- Fixed-base operator maintenance (general aviation)
- Federal Aviation Administration (government)
- Military aircraft maintenance contracts
- National Transportation Safety Board
- Aircraft engine and component manufacturer
- Repair stations
- Aerospace manufacturers

What it takes

Admissions Requirements

Students admitted to Utah State University in good standing qualify to complete this certificate in conjunction with their chosen major. If students wish to pursue this certificate without enrolling in a degree program at USU, they must meet USU's general admissions requirements.

Major Requirements

Click here to see course requirements for the **Certificate (UG)**.

Students are required to furnish their own basic set of tools and toolbox. With special discounts available through USU, prices range from $900 to $1,400.

Contact

Advising

All new USU students may participate in a New Student Orientation program, where they receive detailed information about major requirements, registering for classes, and other important advising information.

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Get Involved

Professional Organizations, Honor Societies, and Clubs

Women in Aviation, International: WAI is a nonprofit organization dedicated to the encouragement and advancement of women in all aviation career fields and interests. Membership includes astronauts, corporate pilots, maintenance technicians, air traffic controllers, business owners, educators, journalists, flight attendants, high school and university students, air show performers, airport managers, and many others. WAI also offers educational outreach programs to educators, aviation industry members, and young people nationally and internationally.

Alpha Eta Rho (USU Pilot Club): AHP is an international aviation fraternity. The purpose of AHP is to act as middle ground between students studying aviation at a university and the aviation industry.

Silver Wings: The purpose of Silver Wings is to provide service to the community, to provide leadership opportunities to members, and to act as a liaison between the Air Force and civilians. Students do not have to have any connection to the Air Force to join Silver Wings.

Society of Aviation Maintenance Professionals: SAMP is a student-run club available for all students interested in airplanes and understanding how they work. The club meets monthly to participate in skill-building projects, learn from guest speakers, and to learn about internship opportunities.

Labs, Centers, Research

With the second oldest undergraduate researchprogram in the nation, USU offers students a wide range of opportunities to gain hands-on research experience. The Undergraduate Research and Creative Opportunitiesprogram allows students to apply for grants and receive funding. USU's Honors Program prepares students for excellent graduate programs by helping them build relationships with professors, participate in research projects, take smaller, more intensive classes, and develop leadership skills.

Logan Cache Airport: This airport has more than 26,000 square feet of hangar space to house a fleet of 16 modern aircrafts. It stores USU's 14 single-engine and two twin-engine aircrafts. The heart of the flight operation stands in the newly remodeled dispatch and pilot center at the airport, providing the latest electronic weather forecasting equipment for students. The flight simulation center and classrooms designed specifically for pilot training is also located at the Logan Cache Airport. The airport also provides modern aircraft for cutting-edge instruction in aircraft maintenance and repair.

Maintenance Management Laboratory: In this lab area, students learn proper methods used to disassemble, inspect, repair, correctly reassemble, and test airframe structures, aircraft systems, reciprocating engines, and turbine engines. The lab includes a test cell, which is an explosion-proof room, where students safely test run their engines. The lab also includes space and equipment for students to work on airframes and sheet metal structures, hydraulic systems, environmental systems, electrical systems, and more. Also in this lab is the aerospace composite manufacturing area which includes an autoclave for advanced composite manufacturing.

Rocky Mountain NASA Space Grant Consortium: RMNSGC is one of 52 National Space Grant Consortia in the United States. As a member of the consortium, USU has awarded more than 100 fellowships to students interested in aerospace-related education and careers. The majority of Space Grant student awards include a mentored research experience with university faculty and NASA scientists, engineers, and technologists.

Space Dynamics Laboratory: SDL is known for sending 500+ successful experiments into space and brings in $54 million per year in revenue, the majority coming from grants, contracts, and appropriations. SDL's expertise in the development of sensors and calibration, small satellites and real-time intelligence has made it an internationally known organization in the space arena.