

Aeronautics Department

DEGREES:

Airframe Maintenance Technician (AS)
Powerplant Maintenance Technician (AS)
Airframe & Powerplant Maintenance
Technician (AS)

CERTIFICATES OF ACHIEVEMENT:

Airframe Maintenance Technician
Powerplant Maintenance Technician
Airframe & Powerplant Maintenance
Technician

COURSES:

AERO (Aeronautics)

CONTACT INFORMATION:

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P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Aeronautics

Airframe and Powerplant Maintenance Technician

Certificates of Achievement and Associates in Science

Program Description

Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of airframe, powerplant, or airframe & powerplant work. Upon satisfactory completion of the required courses, the student is eligible to take the Federal Aviation Administration written oral and practical examination for airframe, powerplant, or airframe and powerplant license.

A focused Airframe or Powerplant Certificate of Achievement can be obtained upon completion of the corresponding 41-unit major. A focused Airframe or Powerplant Associate in Science can be obtained upon completion of the corresponding 41-unit major, General Education, and electives as needed to complete a minimum of 60 units.

The combination Airframe & Powerplant Maintenance Technician Certificate of Achievement can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major. The combination Associate in Science can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major and General Education.

The Federal Aviation administration (FAA) requires 1150 hours (four full semesters) of instruction to complete either the Airframe Maintenance curriculum or Powerplant Maintenance Curriculum (An additional 750 hours, two full semesters for the Combination of Airframe and Powerplant Maintenance Curriculum). All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Airframe Maintenance Technician, Powerplant Maintenance Technician or Airframe & Powerplant Maintenance Technician Certificate of Achievement or Associate in Science will be able to:

1. Demonstrate proficient, entry-level aviation maintenance skills in airframe, powerplant, or airframe and powerplant with emphasis on aircraft engines, aircraft structures, and aircraft systems.
2. Have a working knowledge to inspect, maintain, service and repair aircraft electrical, engine (piston and turbine), airframe structure, flight control, hydraulic, pneumatic, fuel, navigation and instrument systems and other aircraft components specified by Federal Aviation Regulation Part 147.
3. Obtain the knowledge and skills to pass oral, practical and written Federal Aviation Administration (FAA) examination in general and airframe/powerplant subjects.

AIRFRAME REQUIRED COURSES	Units
AERO 102 Aviation Maintenance Technician - Airframe Structures.....	10
AERO 105 Aviation Maintenance Technician - Airframe Systems	10
AERO 118 Aviation Maintenance Technician - FAA Airframe Test Preparation	1
General Required Courses	20
Required Major Total units	41

POWERPLANT REQUIRED COURSES	
AERO 106 Aviation Maintenance Technician - Powerplant Reciprocating Engines	10
AERO 107 Aviation Maintenance Technician - Powerplant Turbine Engines	10
AERO 119 Aviation Maintenance Technician - FAA Powerplant Test Preparation.....	1
General Required Courses	20
Required Major Total units	41

GENERAL REQUIRED COURSES	Units
AERO 055 Aviation Maintenance Technician - General Aircraft Subjects	10
AERO 103 Aviation Maintenance Technician - Basic Electricity and Hydraulics	10

AIRFRAME AND POWERPLANT REQUIRED COURSES	Units
Complete all courses	62

These programs are Gainful Employment Programs. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Aeronautics Airframe Maintenance Technician," or "Aeronautics Airframe & Powerplant Maintenance Technician."