

AVIATION AIRFRAME MECHANICS, CLOCK HOUR CERTIFICATE

Program Code: ACAM
Meta-Major: STEM
Location(s): Melbourne
Delivery Method(s): On-Campus
Previous Degree Required: HS Diploma
Eligible for Financial Aid: Yes
Additional Limited Access Application Process Required: Yes
Program Testing Requirements: TABE - Test of Adult Basic Education
Classification of Instructional Programs (CIP) Code: 47.0607
Florida Department of Education CIP Code: 0647060703

This program prepares students for a rewarding career in the commercial and general aviation industries. Instruction consists of academic as well as laboratory training designed to prepare individuals for the Federal Aviation Administration (FAA) written, oral, and practical certification examination for the Airframe Mechanic rating. With this rating, individuals will be qualified for a position as an Aviation Maintenance Technician with the FAA Airframe Rating. It is recommended that students pursue both the Airframe and Powerplant ratings for maximum employment potential.

FAA certified maintenance technicians have the important responsibility of keeping aircraft and related equipment working safely and efficiently. Aviation Maintenance Technicians employed by the industry perform routine inspection, maintenance, servicing, and repairs and engage in the manufacture or assembly of new aircraft. Students are admitted to the Aviation Airframe Mechanics program on a selective basis. The program is structured as a full-time, cohort program. [Visit the program page for more details and how to apply](#) or by calling (321) 433-5440.

Certificate Requirements

Code	Title	Clock Hours
Completion Group 1		
AMT 0708	Aviation Maintenance Technology General 1	225
AMT 0709	Aviation Maintenance Technology General 2	225
Completion Group 2		
AMT 0712	Aviation Maintenance Technology Airframe 1	225
AMT 0713	Aviation Maintenance Technology Airframe 2	225
AMT 0714	Aviation Maintenance Technology Airframe 3	225
AMT 0717	Aviation Maintenance Technology Airframe 4	225
Total Clock Hours		1350

Note: A grade of "C" or higher is necessary in each course for progression and graduation.

Learning Outcomes: Aviation Airframe Mechanic CTC

1. Demonstrate proficiency in general hangar and shop safety, environmental concerns, mathematics, physics, basic aerodynamics, federal aviation regulations, publications and records, aircraft

- hardware, precision measuring instruments, blueprints and drawings, hand and power tools, and fluid lines and fittings.
- *Core Ability Supported: Work Cooperatively*
2. Demonstrate proficiency in basic electricity, DC electrical circuits, aircraft battery service and inspection, AC electrical circuits and solid-state circuits, structural materials and processes, non-destructive inspection, aircraft cleaning and corrosion control, weight and balance, and aircraft ground operations and servicing.
 - *Core Ability Supported: Process Information*
 3. Demonstrate the skills necessary for aircraft structural assembly and rigging, aircraft non-metallics, and aircraft electrical systems.
 - *Core Ability Supported: Process Information*
 4. Demonstrate the skills necessary to maintain/repair aircraft finishes, fabric covering, sheet metal structures, perform aircraft welding.
 - *Core Ability Supported: Think Critically and Solve Problems*
 5. Demonstrate the skills necessary to maintain/repair aircraft hydraulic and pneumatic systems, landing gear systems, and aircraft atmospheric and climate control systems.
 - *Core Ability Supported: Communicate Effectively*
 6. Demonstrate the skills necessary to maintain ice and rain control systems, fire detection and extinguishing systems, instrument and position warning systems, pitot static systems, communications and navigation systems, and conduct aircraft inspections.
 - *Core Ability Supported: Think Critically and Solve Problems*