# AVIATION AIRFRAME MECHANICS (CTC)

**Previous Degree Required:** HS Diploma
**Eligible for Financial Aid:** Yes
**Delivery Method(s):** On-Campus
**Location(s):** Titusville
**Limited Access:** Yes
**Program Testing Requirements:** TABE (Test of Adult Basic Education) Math Only
**Academic Community:** INMC Industry/Manufacturing and Construction
**Program Code:** ACAM
**Classification of Instructional Programs (CIP) Code:** 47.0607
**Florida Department of Education CIP Code:** 0647060705

**Leads to state or organizational license or certification:** Successful completion of the EFSC Aviation Airframe Mechanics Career and Technical Certificate (CTC), prepares students for the FAA Aviation Mechanic written, oral, and practical exams for the General and Airframe (A) rating.

- **Cost associated with taking the exam:** All exam fees vary based on Designated Mechanic Examiner (DME) chosen. Written exams $175 each (General, Airframe, Powerplant); Oral and Practical exams $300-600 each (General, Airframe, Powerplant).
- **Where to take the exam:** Find a Test Center

This program prepares students for a rewarding career as an aviation maintenance technician (AMT). AMTs are certificated by the FAA based on training and experience demonstrated through successful completion of written, oral, and practical exams. With highly technical skills, AMTs work for commercial airlines, aviation manufacturing, repair stations, and general aviation and aerospace industries. AMT skills are also transferable to other industries. Instruction consists of academic as well as laboratory and hands-on, practical training.

FAA certified maintenance technicians have the important responsibility of keeping aircraft and related equipment working safely and efficiently. Aviation Maintenance Technicians with an Airframe (A) rating can maintain and repair an aircraft's airframe and components associated with the airframe.

At EFSC, Aviation Maintenance students begin with the Aviation Airframe Mechanics CTC (which starts with General Mechanics) before moving to the Aviation Powerplant Mechanics CTC. Students are admitted to the Aviation program on a selective basis. The program is structured as a full-time, cohort program.

Refer to the Career and Technical Certificates overview page to find information about admission, graduation, testing, and other requirements.

**Program-Specific Admissions Information:** This is a limited-access program; student must submit a separate application to the program.

Visit the program page for more details. Learn how to apply. Make an appointment. Explore your future! Ask for the Aviation Information Package Email: CareerTechLA@easternflorida.edu.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **1350 Clock Hours - 45.000 Vocational Credits** | | |
| AMT 0708 | Aviation Maintenance Technology General 1 | 225 |
| AMT 0709 | Aviation Maintenance Technology General 2 | 225 |
| 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 Hours:** | | **1350** |

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

**Learning Outcomes**

1. Demonstrate proficiency in mathematics, physics in aviation, federal aviation regulations, maintenance forms, publications and records, human factors, aircraft drawings, basic electricity and DC circuits, aircraft materials, hardware, and processes.
   - *Core Ability Supported: Work Cooperatively*
2. Demonstrate proficiency in aircraft ground operations and servicing, fundamentals of electricity and electronics, inspection concepts and techniques, aircraft cleaning and corrosion control, fluid lines and fittings, and weight and balance.
   - *Core Ability Supported: Process Information*
3. Demonstrate the skills necessary for aircraft structural assembly and rigging, rotorcraft fundamentals, and aircraft electrical systems.
   - *Core Ability Supported: Process Information*
4. Demonstrate the skills necessary to maintain non-metallic structures and metallic structures.
   - *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 aircraft fuel systems, ice and rain control systems, and airframe fire protection systems, aircraft instrument systems, communications, light signals and runway lighting systems, waste and water systems, and conduct aircraft inspections.
   - *Core Ability Supported: Think Critically and Solve Problems*