



**Academic Affairs and Economic Development Division
Non-Credit Program
Avionics Technician Program
Offered by Center for Advanced Training & Apprenticeships (CATA)
ADULT PROGRAM**

Program Description:

A specialized training program that prepares students to install, maintain, troubleshoot, and repair the electronic systems used in aircraft. These systems include communications, navigation, flight control, weather radar, autopilot, entertainment, and other critical electronics that help an aircraft operate safely.

Program Summary & Cost

- **Total Hours:** 336
- **Program Length:** 16 weeks (approximately 20 hours per week)
- **Target Audience:** Adults Ages 18 and Older
 - Students can complete in approximately 3-4 months
- **Number of Courses:** 8
- **Total Cost of the Program (estimated):**
 - Total Cost per student \$5,000 (based on cohort of 12 students)
 - Tuition Cost per Student: \$3,730
 - Materials and Supplies Cost per Student: \$1,200

Note: This program can be customized based on employer needs.

Program Job and Wage Data:

	Geographic Area	Expected Growth Rate	Additional Job Openings	Median Salary Earnings	BLS. Gov Median Pay
Radio, Cellular, and Tower Equipment Installers and Repairers 49-2021	Regional	36.9%	20	\$25.08	\$64,360
	State	21.2%	222	\$28.30	
	National	7.1%	1,098	\$30.53	

Per THECB website and CIP code (47.0103) mapped to this SOC code is not on the high demand field list.

Program Curriculum

Fundamentals

1. **Introduction to Aviation Electronic Systems (36 hrs.)**
 - Provides an overview of avionics, system types, and workplace expectations.
2. **Electricity Principles (36 hrs.)**
 - Covers electrical theory, Ohm's law, and circuit basics. Serves as a foundation before installation courses.

Installation & System Familiarity

3. **Aviation Electrical and Electronic System Installation I (48 hrs.)**
 - First exposure to hands-on installation of avionics components and wiring.
4. **Aviation Electrical and Electronic System Installation II (48 hrs.)**
 - Builds upon Installation I with more advanced system integration.

System Testing & Communication Equipment

5. **Operational Testing of Aviation Electronic Systems (48 hrs.)**
 - Focuses on troubleshooting, testing procedures, and performance verification.
6. **Communication Electronics Components (48 hrs.)**
 - Specializes in radios, navigation, and other communication systems used in aircraft.

Advanced Component-Level Repair

7. **Foundations in Avionics Equipment Component Level Repair (48 hrs.)**
 - Emphasizes circuit board work and detailed component-level repairs — critical for advanced troubleshooting.

FAA Regulations & Certification Knowledge

8. **FAA Regulations for Avionics Certified Repair Station (24 hrs.)**
 - Covers the regulatory framework required for work in FAA-certified repair facilities.
 - Recommended as the final course once technical knowledge is established.
 - Offered as a local class option.

Program Implementation Timeline

- This program is still in its early stages of development
- Earliest proposed start date would be late January 2026
- Potential completion within 4 months
- Average (20) hours per week

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