

# Avionics Maintenance Technology

at Trident Technical College



Trident Technical College offers programs to address the community's critical need for advanced electronic training, licensing and certification beyond the scope of routine Federal Aviation Administration (FAA) aircraft mechanic programs.

Employers are looking for avionics technicians trained in the fundamentals of avionics theory, with a heavy emphasis on avionics troubleshooting skills, hands-on aircraft experience, a Federal Communications Commission (FCC) license and Aircraft Electronics Technician certification.

Students enrolled in TTC's Avionics Maintenance Technology program learn to install, maintain, calibrate and troubleshoot systems related to navigation, communication, power generation and other critical electrical, electronic and ancillary systems required to keep aircraft flying safely.

The program culminates with on-site FCC General Radiotelephone Operator's License (GROL) elements 1, 3, and 8 licensing preparation and operational testing. In addition, the program prepares students for the National Center for Aerospace and Transportation Technologies (NCATT) Aircraft Electronics Technician (AET) certification.



## Career and Employment

In general, job opportunities will be best for mechanics who hold an A&P certificate and have knowledge about the most cutting edge technologies and composite materials. Familiarity with computers and digital systems will help provide the best opportunities. *(Source: U.S. Bureau of Labor Statistics, Employment Projections program)*

In May 2012, the median annual wage for avionics technicians was \$55,350. *(Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics)*

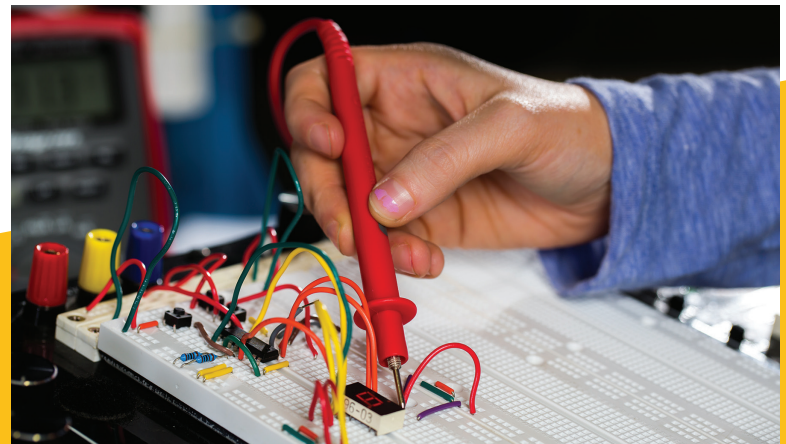
## Programs of Study

*Associate Degree in Applied Science  
(five semesters):*

- Avionics Maintenance Technology

*Certificates (three semesters):*

- Avionics Maintenance Technology





## Career opportunities:

- Avionics field technician
- Avionics installer
- Avionics troubleshooter
- Avionics bench technician

## Curriculum and Skills Taught

- Aircraft electricity
- Aircraft electronic circuits
- Aircraft digital circuits
- Aviation electronic and data communications
- Avionics standard practices
- Avionics circuit repair
- Aircraft navigation, pulse and radar systems
- Avionics general regulations

## Tools and Equipment Covered

- Digital and analog multimeters
- Function and signal generators
- Oscilloscopes
- Spectrum analyzers
- Pitot/static tester
- Navigation ramp tester
- Standard aviation tools to include:
  - o Torque wrenches
  - o Micrometers
  - o Tap and dye sets
  - o Drill and punch sets

## Admission Requirements

- Be high school graduate or possess GED or be at least 18 years old
- Meet TTC Placement Test, SAT or ACT requirements

## AVIONICS MAINTENANCE TECHNOLOGY CERTIFICATE

Program Level – Undergraduate certificate  
 Program Length – 12 months

### COST

Q: **How much will this program cost me?\***

A: Tuition and fees: \$7,884  
 Books and supplies: \$808  
 On-campus room & board: not offered

**What other costs are there for this program?**

For further program cost information, visit  
<http://www.tridenttech.edu/academics/ge/addcostinfo.htm>

\*The amounts shown above include costs for the entire program, assuming normal time to completion.  
 Note that this information is subject to change.

### FINANCING

Q: **What financing options are available to help me pay for this program?**

A: Financing for this program may be available through grants, scholarships, loans (federal and private) and institutional financing plans. The median amount of debt for program graduates is shown below:

Federal loans: \$4,962  
 Private education loans: \$0  
 Institutional financing plan: \$0

### SUCCESS

Q: **How long will it take me to complete this program?**

A: The program is designed to take 12 months to complete. Of those that completed the program in 2013-2014, 100% finished in 12 months.

Q: **What are my chances of getting a job when I graduate?**

A: The job placement rate for students who completed this program is 95%.  
 For further information about this job placement rate. <sup>2</sup>

1 Other costs for this program

No additional information provided.

2 Job Placement Rate Information

**Name of the state this placement rate is calculated for:**

South Carolina

**Who is included in the calculation of this rate?**

All graduates between July 1, 2013 and June 30, 2014 with the exception of those in active military or church service

**What types of jobs were these students placed in?**

The job placement rate includes completers hired for: Jobs within the field

Positions that recent completers were hired for include: Avionics Technicians

**When were the former students employed?**

Graduates typically employed within six months of graduating

**How were completers tracked?**

South Carolina Department of Employment and Workforce and the National Student Clearinghouse

3 Additional information related to this program and/or the information provided above

This certificate prepares the student to sit for the certification exams required by the Federal Communications Commission (FCC) and National Center for Aerospace and Transportation Technologies (NCATT) to become certified avionics maintenance technicians. Students will gain the skills needed to exceed employer expectations. Instruction includes installation, maintenance, troubleshooting and calibration of systems related to navigation, communication, power generation and other critical electrical, electronic and ancillary systems required to keep aircraft flying safely.

4 More information on jobs related to this program

Avionics Technicians

<http://online.onetcenter.org/link/summary/49-2091.00>

Date Created: 01/07/2015

## For more information:

Rodolfo “Rudy” Salcedo

Avionics Maintenance Technology Program Coordinator

843.899.8028 or 843.574.6796

[www.tridenttech.edu](http://www.tridenttech.edu)

## TRIDENT TECHNICAL COLLEGE

Trident Technical College does not discriminate in admission or employment on the basis of race, gender, color, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity or pregnancy.

Produced by Trident Technical College. 1/15