



National Aviation
ACADEMY

What is an A&P MECHANIC?

What exactly is an Aircraft Maintenance Technician and what do they do?

An aircraft maintenance technician refers to an individual who holds an Airframe and/or Powerplant (A&P) certificate, which is issued by the Federal Aviation Administration (FAA). Just like pilots, there are rules for certification and regulations, which must be abided by for use of their license. An A&P technician inspects aircraft as well as supervises and conducts preventive maintenance.

How does someone become an A&P? A person who fulfills the necessary requirements is issued a mechanic certificate with either an Airframe or Powerplant rating, or both. An Airframe rating allows a technician to maintain things like the structure of an aircraft while a Powerplant rating includes the engines and all associated equipment. It is these ratings which together account for the common practice of referring to mechanics as "A&Ps."

What do A&Ps need to know? The good news is an A&P certification covers everything from a hot air balloon to a wide body jumbo jet. Students have the opportunity to study several subjects including; electricity, weight and balance, hydraulics, sheet metal, composites, communication and navigation systems just to name a few.

The FAA requirements for eligibility of an aircraft mechanic certificate include the following:

BE AT LEAST 18 YRS OF AGE OR OLDER UPON COMPLETION OF THE PROGRAM.
MUST BE ABLE TO READ, SPEAK AND UNDERSTAND ENGLISH.
PASS THE PRACTICAL TESTS AS WELL AS AN ORAL EXAMINATION.

Aviation mechanics are responsible for inspecting the entire aircraft including; engines, instruments, gauges, landing gear, pressurized areas, brakes, air-conditioning, pumps, valves, among many other things. Mechanics are responsible to fix, maintain or replace parts of the aircraft and these are done to the highest standards. They also conduct detailed inspections between take-offs and landings. Aircraft mechanics and technicians are required to document repairs and maintain all maintenance records of the aircraft they oversee. Details include the amount of hours an aircraft has been in flight, number of days since the last inspection, operation cycles, and various other aspects. All aviation mechanics have a very important responsibility of staying current with all the technological advances in their industry. Aircraft mechanics at NAA are taught to live and work by The Mechanic's Creed.

Next time you see an aircraft maintenance technician walking around your aircraft as you wait for take-off, remember they are highly trained professionals who keep the world moving.





Working as an Avionics Technician

What is an avionics technician and what do they do?

Avionics technicians are responsible for inspecting, maintaining and repairing the electrical systems of an aircraft including autopilot, weather radar, GPS navigation, communication and aircraft wiring systems.

What are the requirements necessary to take the avionics course at NAA?

The applicant must be enrolled for the 21-month Aviation Maintenance Professional (AMP) program*, possess an Airframe and Powerplant certificate or equivalent and/or have experience performing the duties of an entry-level avionics technician.

What topics are covered in the avionics course?

The avionics course is spread out into three terms. The first term concentrates on the basic electrical components, theory and troubleshooting of electrical circuits. During the second term, students are introduced to aircraft electronics, such as aircraft communication and navigation systems. The third term covers the more advanced aircraft systems including autopilot, electrical wiring and interconnect systems.

What are the benefits of becoming an avionics technician?

Avionics technicians are able to move into higher positions within a company. They have opportunities to become supervisors, crew chiefs, lead inspectors or lead mechanics. Those who choose to continue their education could become engineers, consultants or electronics designers. The A&P certificate allows a person to obtain a job in aviation maintenance, while avionics helps to establish a lifelong career.

TWO PROFESSIONAL CATEGORIES IN THE AVIONICS INDUSTRY:

- ***Research and development, which includes the design and testing of new electronic equipment***
- ***Direct installation and maintenance***



MAINTENANCE



AVIONICS

National Aviation Academy is a Federal Aviation Administration certificated training center. Students are enrolled to complete either the 14-month program to achieve the Airframe and Powerplant certifications or the 21-month program* which consist of the A&P certifications plus the Avionics Technology curriculum. Graduates typically work in the fields of:

Commercial Aviation	Blimps
Corporate Aviation	Manufacturing
General Aviation	Space Exploration
Drones	Rollercoasters
Helicopters	Wind & Water Power

At NAA, we designed a program for individuals with aviation maintenance experience or for those holding an Airframe and Powerplant certificate. Modern aircraft are highly complex machines equipped with integrated electrical systems. In order to maintain these aircraft, the modern A&P licensed technician normally requires a higher level of training to perform the scheduled maintenance, repairs and complete inspections.

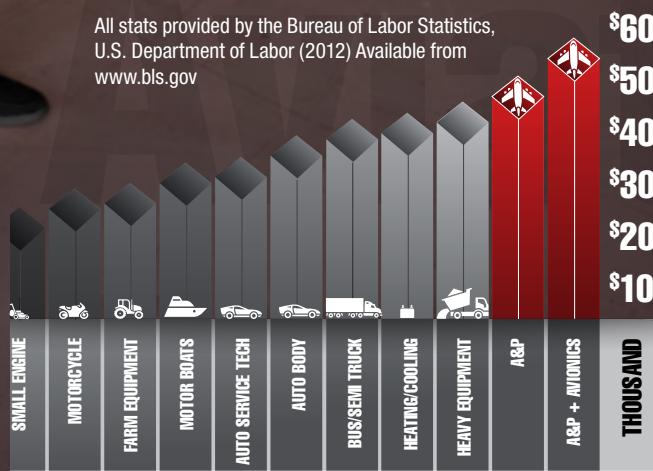
The avionics program provides students with dynamic and interactive training to help stimulate interest in this complex subject. This includes hands-on projects and simulation-based training, which allows the student to see the configuration of the aircraft and learn how the system operates.

Avionics technicians test, maintain and produce aviation electronics. Examples of avionics systems are in-flight TVs, Wi-Fi communications, GPS navigation and weather radar; as well as the computer systems that monitor and control flight and primary aircraft functions. The advanced training will mold you into a highly skilled employee, whose expertise will be invaluable in our increasingly technological world.

STUDENTS LEARN THROUGH 3 PRIMARY MODES:

- Classroom instruction accompanied by text & work book review
- Team oriented projects in a laboratory setting
- Real world experience working on aircraft in one of our hangar facilities

All stats provided by the Bureau of Labor Statistics, U.S. Department of Labor (2012) Available from www.bls.gov





Two-Week Aviation Maintenance (A&P) Certification

The purpose of NAA's Aviation Maintenance Certification program is to prepare qualified candidates to take the FAA written exams and the oral and practical exams to obtain FAA Airframe and Powerplant certification.

REQUIREMENTS

Participants in the program must have FAA minimum acceptable experience to test for the FAA Airframe and/or Powerplant ratings. Two FAA authorized/signed 8610-2 forms acknowledge experience acceptance. These forms authorize the holder to take the FAA written exams and oral and practical exams. A photo ID with full name and address must be provided.

PROGRAM DESCRIPTION

This two-week program provides 10 days of instructional training. Preparation for the FAA General, Airframe and Powerplant written exams is accomplished by three days of instructional training for each subject. The FAA written exams are taken on the morning following the completion of each subject. Oral and practical preparation is provided in conjunction with written exam preparation. The oral and practical exams may be taken in the presence of an FAADME (designated mechanic examiner) any day after the final class day. This program may be adapted to accommodate Airframe or Powerplant preparation.

SCHEDULE AND STAFF

Classes are held from 8:00a.m. to 3:30p.m. Monday through Friday. The instructor is a specialist in accelerated training and instructing students with civilian and military backgrounds. Inquire for class availability and onsite training.



TAMPA BAY CLASSES

AVIATION MAINTENANCE TECHNICIAN

AVIONICS

1ST TERM: 336 Hours

AMT-111	Aircraft Fundamentals
AMT-112	Mathematics
AMT-113	Physics
AMT-114	Aircraft Drawings
AMT-115	Weight & Balance
AMT-116	Materials & Processes
AMT-117	Cleaning & Corrosion Control
AMT-118	Ground Operations & Service
AMT-119	Fluid Lines & Fittings
AMT-120	Basic Electricity

2ND TERM: 336 Hours

AMT-210	Forms & Regulations
AMT-214	General Review
AMT-215	General School Final Exam
AMT-216	Reciprocating Engines
AMT-221	Powerplant Systems (Reciprocating)
AMT-222	Troubleshooting Reciprocating Engines

3RD TERM: 336 Hours

AMT-311	Ignition & Starting Systems
AMT-312	Engine Electrical Systems
AMT-313	Engine Instrumental Systems
AMT-321	Turbine Engines
AMT-322	Powerplant Systems (Turbine)

4TH TERM: 336 Hours

AMT-411	Engine Fire Protection Systems
AMT-412	Propellers
AMT-413	Engine Inspections
AMT-414	Powerplant Review
AMT-415	Powerplant School Final Exam
AMT-421	Aircraft Electrical Systems
AMT-422	Aircraft Instrument Systems
AMT-423	Communication & Navigation Systems

5TH TERM: 336 Hours

AMT-511	Sheet Metal & Non-Metallic Structures
AMT-522	Wood Structures
AMT-523	Aircraft Coverings
AMT-524	Aircraft Finishes
AMT-525	Welding
AMT-526	Airframe Fuel Systems
AMT-527	Ice & Rain Systems

6TH TERM: 320 Hours

AMT-611	Hydraulic & Pneumatic Systems
AMT-612	Aircraft Landing Gear Systems
AMT-613	Position & Warning Systems
AMT-614	Fire Protection Systems - Airframe
AMT-615	Cabin Atmospheric Control Systems
AMT-622	Assembly & Rigging
AMT-623	Airframe Inspections
AMT-624	Airframe Review
AMT-625	Airframe School Final Exam

7TH TERM: 336 Hours

AVT-1-100	Basic DC Circuits
AVT-1-200	AC Circuits
AVT-1-300	Solid State Devices
AVT-1-400	Digital Circuits
AVT-1-500	Fundamental Microprocessors
AVT-1-600	Analog Circuits

8TH TERM: 336 Hours

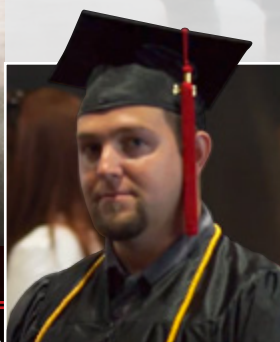
AVT-2-100	Aircraft Electrical Systems & Ground Safety
AVT-2-200	Line Maintenance of Airborne Communication Systems
AVT-2-300	Solid State Devices
AVT-2-400	AM and FM Receivers
AVT-2-500	AM and PM Transceivers
AVT-2-600	Electromagnetic Wave Emissions
AVT-2-700	Line Maintenance of Radio Navigation Systems
AVT-2-800	Line Maintenance of Airborne Radar Systems
AVT-2-900	Operation of Area Navigation (R-NAV)
AVT-2-1000	Operation of the Global Positioning System (GPS)

9TH TERM: 328 Hours

AVT-3-100	Avionics Radio Station Regulations
AVT-3-200	Technical Recording
AVT-3-300	Wire and Component Techniques
AVT-3-400	Wire and Soldering Techniques
AVT-3-500	Installing Avionics Systems
AVT-3-600	Avionics Integration Programs
AVT-3-700	Human Factors / Ergonomics

"While at NAA, I got to work on my leadership skills as a team lead and as class president in student council helping improve whatever I was involved with. After graduating, I received a job offer from a really respectable aviation company as an aircraft sheet metal worker out in Tucson, Arizona starting out at \$27hr working four days on, three days off."

Adrian Snellgrove - Alumni



NEW ENGLAND CLASSES

AVIATION MAINTENANCE TECHNICIAN

BLOCK 1: 168 HOURS

- G101 Human Factors
- G102 Aircraft Fundamentals
- G103 Mathematics
- G104 Basic Physics
- G105 Basic Electricity

BLOCK 2: 168 HOURS

- G107 Mechanic Privileges and Limitations
- G201 Maintenance Publications
- G202 Maintenance Forms and Records
- G203 Weight and Balance
- G204 Fluid Lines and Fittings
- G205 Cleaning and Corrosion Control
- G206 Ground Operation and Servicing

BLOCK 3: 168 HOURS

- G301 Materials and Process
- A301 Hydraulic and Pneumatic Power Systems
- A302 Aircraft Landing Gear Systems

BLOCK 4: 168 HOURS

- A401 Aircraft Electrical Systems
- A402 Communication and Navigation Systems

BLOCK 5: 168 HOURS

- A501 Sheet Metal Structures
- A502 Welding
- A503 Ice Rain Control Systems
- A504 Position and Warning Systems
- A505 Aircraft Instrument Systems

BLOCK 6: 168 HOURS

- A601 Non-Metallic Structures
- A602 Wood Structures
- A603 Aircraft Covering
- A604 Aircraft Finishes Control Systems
- A606 Airframe Fire Protection Systems

BLOCK 7: 168 HOURS

- A701 Aircraft Fuel Systems
- A702 Assembly and Rigging
- A703 Airframe Inspection

BLOCK 8: 168 HOURS

- P801 Reciprocating Engine Theory
- P802 Lubrication Systems
- P803 Engine Cooling Systems
- P804 Induction and Engine Air Flow System

BLOCK 9: 168 HOURS

- P901 Engine Fuel Systems
- P902 Fuel Metering Systems
- P903 Engine Electrical Systems

BLOCK 10: 168 HOURS

- P1001 Ignition and Starting Systems
- P1002 Engine Instrument Systems
- P1003 Engine Fire Protection Systems

BLOCK 11: 168 HOURS

- P1101 Turbine Engines
- P1102 Unducted Fans
- P1103 Engine Exhaust and Reverser Systems
- P1104 Auxiliary Power Units

BLOCK 12: 152 HOURS

- P1201 Propellers
- P1202 Engine Inspection

“NAA is really helping us be better prepared to get out in the field to do the jobs that are going to be needed. I am very happy and excited to have gone through NAA’s program and to be moving forward with my career.”

Gary Blatt - Alumni



STUDENT FINANCE DEPARTMENT

If you are thinking about pursuing higher education, you might be wondering if it is something you can afford. We know paying for school may seem overwhelming, but our highly trained staff assists students just like you everyday. We understand there is a ton of information and questions, which is why our representatives are there every step of the way. Your schooling is an investment in yourself for the future and will pay for itself in higher earnings as well as greater opportunities long after graduation. It doesn't matter if you're attending school for the first time or a veteran transitioning from the military. Our Student Finance Representatives work with each student on a case by case basis to answer questions and to help you with your needs before, during and after attending NAA. After you're accepted to NAA it is important to start the financial aid process immediately. Students who complete financial aid can reserve their space for the upcoming class start.

How can I pay for school?

Out of pocket, grants, scholarships and loans may be available to you.

Who is eligible to receive financial aid?

A person must be officially accepted and enrolled at NAA as a regular student to receive federal aid funds. A regular student is someone who is actively attending for the purpose of graduating from NAA.

How is my financial aid award determined?

The federal government has established a formula which determines your expected family contribution, or EFC. This formula, which is used by colleges and universities throughout the country, estimates your family's ability to contribute to the cost of your education.

What Is Financial Aid?

Financial aid helps students and their families pay for education. This financial assistance may cover education expenses including tuition and fees as well as books and supplies. It represents the resources you use to make up the difference between what you and your family can afford to pay and the remaining of your education investment.

ELIGIBILITY FOR FINANCIAL AID IS ULTIMATELY BASED ON STUDENT NEED

Types Of Aid

Financial aid awards may include a combination of various types of resources. Each student's situation is different based on financial need. The types of aid available for students attending NAA may include: **GRANTS, SCHOLARSHIPS & LOANS**

Direct PLUS Loan for Parents:

Parents of dependent students may apply for a Direct PLUS Loan to help pay their child's education investment as long as certain eligibility requirements are met. To be eligible for a Direct PLUS Loan for parents: The parent borrower must be the student's biological or adoptive parent. In some cases, the student's step-parent may be eligible. The student must be a dependent who is enrolled at least half-time at a school that participates in the Direct Loan Programs. Generally, a student is considered a dependent if he or she is under 24 years of age, has no dependents, and not any of the following: married, a veteran, a graduate or professional degree student, or a ward of the court.



STUDENT SERVICES DEPARTMENT

The primary mission of the Student Services Department is to provide resources to students that support and enhance their educational experience. Here at NAA, we understand how important your transition to campus life is. Student Services is here to help with that transition, and answer any questions that you might have about the areas of: housing, transportation, employment assistance, healthcare and more.

We offer information on getting to know the surrounding areas. We know there is a lot to explore around town. Wondering where to get a driver's license or a haircut? Looking for something new to do on the weekend? Student Services can help you discover both the practical and the fun aspects of living in your new city. We know that while attending classes situations can change and problems may arise. Sometimes it is easier to face those situations with the help of the Student Services Department. We encourage students to use this support system as a resource. Student Services has an open door policy, but sessions can be scheduled in advance.

LOOKING FOR A ROOMMATE?

We coordinate off campus housing assistance. Our personnel will listen to your specific housing needs and help by directing you to the options that best meet those needs. We offer:

- FIND A ROOMMATE SERVICES
- LOCAL APARTMENT CONTACTS

We encourage students coming from outside the area to take advantage of our student housing services as soon as possible. After a student is enrolled at NAA they are eligible to use our free service.

EMPLOYMENT ASSISTANCE

At NAA we're dedicated to assisting students as they search for suitable employment. Most students attending NAA work either full-time or part-time while attending school. Student Services Representatives actively search for employment opportunities that work with student skill sets and class schedules. Each day, students can review recent job postings on the student services Facebook page.

FOR
RENT

Job Application

Personal Information
(LAST NAME FIRST)



CAREER SERVICES DEPARTMENT

The objective of the Career Services Department is to assist current and graduated students to find gainful employment in the aviation industry. All students and alumni of the school are eligible for lifetime career services assistance to prepare them for future career opportunities, which we focus on their: **Cover Letter & Resume Development / Email, Faxing & Mailings Strategies / Interviewing Tips & Techniques**

CAREER OPPORTUNITIES

Students who successfully complete either the 14-month Aviation Maintenance Technology (AMT) program or the 21-month Aviation Maintenance Professional (AMP) program and pass the required FAA technician certification examinations are privileged to fix and maintain or work in the fields of: **HELICOPTERS, AIRSHIPS / BLIMPS, COMMERCIAL AVIATION, CORPORATE AVIATION, GENERAL AVIATION, UNMANNED AERIAL VEHICLE (UAV) / DRONES, SPACE INDUSTRY, AMONG OTHERS.**

NAA holds **6 CAREER FAIRS** each year (three in Tampa Bay and three in New England) to give our students and alumni an easier portal to leading aviation industry employers.

Boeing released their 2014 Pilot and Technician Outlook - a respected industry forecast of aviation personnel. The Boeing outlook indicates that by 2033 the world will require: **584,000 NEW COMMERCIAL AIRLINE MAINTENANCE TECHNICIANS & 533,000 New Commercial Airline Pilots**

MIAMI, Aug. 29, 2014 /PRNewswire/ -- Boeing (NYSE: BA)

WHO'S HIRING?

Wouldn't it be nice to have a constant resource at your fingertips whose number one priority is searching the industry for employment opportunities? At NAA we provide lifetime employment assistance to all alumni. It is critical to know the employment forecast for your future career. Projections from the Boeing Company show a boom in the aviation industry over the next 20 years. Over 1,000,000 mechanics and pilots will be needed worldwide which means aviation employment is in high demand.

So who is hiring? NAA graduates are working for hundreds of companies around the world. Here are just a few: **AAR, AEROTEK, BOEING, BOMBARDIER LEARJET, CAPE AIR, ENDEAVOR AIR, GENERAL ATOMICS, GE AVIATION, GOJET AIRLINES, GRANITE SERVICES, GULFSTREAM, HONEYWELL, JETBLUE AIRWAYS, LOCKHEED MARTIN, PEMCO, REPUBLIC AIRWAYS, STAMBAUGH AVIATION, SKYWEST AIRLINES, TEXTRON AVIATION (BEECHCRAFT, CESSNA & HAWKER), THALES AVIONICS/LIVETV, TIMCO, TRANSSTATES AIRLINES, UNITED AIRLINES.**

DEFAULT PREVENTION DEPARTMENT

The purpose of the Default Prevention Department is to assist and help student loan borrowers. Our primary goal is to help students gain a full understanding of student loan process from the beginning to repayment of such loans. Our approach begins with educating students on all aspects of student loan borrowing beginning with the basics of understanding your types of loans, deferment and forbearance. Also, your rights and repayment responsibilities, consequences of defaulting, and how to repay student loans in the shortest amount of time.

Through our efforts of in-class presentations, financial literacy program, and one-on-one conversations, we are developing students that are better prepared to make well thought-out, informed decisions regarding every

aspects of their financial endeavors. We are available to assist and help borrowers that are struggling to repay their loans by discussing their options on repaying back on their loans as well as their benefits. We can answer questions and concerns borrowers will have from time to time regarding their student loans and help them connect with their loan servicer.



MANAGING STUDENT LOANS EFFECTIVELY

While Attending School

- ▶ Use studentloans.gov and participate in all classroom presentations to learn about financial literacy.
- ▶ Create a realistic budget and a balance statement (Assets/Liabilities).
- ▶ Overcome daily challenges by developing a "growth mindset". (How can I afford it? vs. I can't afford it.)
- ▶ Complete your program of study by staying in school.
- ▶ Communicate with a school mentor/instructor.
- ▶ Ask questions or request help from the Default Prevention Department.

1 - 180 Days After LDA*

- ▶ Open a savings account and deposit a fixed amount each month for your estimated monthly payment.
- ▶ Look for a steady source of income.
- ▶ Find out how much you owe and who your loan servicer are at NSLDS.ed.gov You will need the following:
 - 1) Your Social Security Number
 - 2) First 2 letters of your last name
 - 3) Date of Birth
 - 4) Pin#
- ▶ Establish contact with your loan servicer before grace period ends.

181 Days After LDA*

- ▶ Choose a repayment plan that fits you best:
 1. Standard
 2. Graduated
 3. Extended
 4. Income-Contingent (ICR)
 5. Income-Sensitive (ISR)
 6. Income-Based (IBR)
 7. Pay As You Earn
- ▶ Maintain contact with your Loan Servicer and NAA.
- ▶ Keep a steady source of income.
- ▶ Save at least 10% of your income.
- ▶ Apply for a deferment if you experience financial hardship or become unemployed.
- ▶ Apply for **forbearance to bring your account current.

IN SCHOOL

GRACE PERIOD

REPAYMENT PERIOD

*Last Day of Attendance
**Requires servicers approval

FINANCIAL WELLNESS

CREATE A BUDGET

Understand short and long term goals
Think of this as a spending plan, not a budget.

THE 70-20-10 RULE

Spend 70%

Living expenses (rent, food, clothing, etc.)

Save 20%

5% for emergency
5% for specific goals
10% to invest long term

Spend 10%

Debt Payments (car loan, student loans, credit cards, etc.)

BEFORE YOU BUY

Before your next purchase, walk away for 15 minutes and think about the following:

- Do I NEED it?
- How will I pay for it – cash or credit?
- What will happen if I don't buy it?

Look for a deal

- Take time to look for the lowest interest rate and fees
- When saving, look for the highest return on your investment

GOOD CREDIT: GET IT

Improve your credit score

- Make your payments on time
- Establish a long-term account with a reputable credit card company
- Don't take on more debt than you can handle

Good Debt vs. Bad Debt

GOOD DEBT - The debt that will grow in value, such as a home, education, or investments

BAD DEBT - The debt you've taken on for things you don't need

TAMPA BAY CAMPUS:

6225 Ulmerton Rd., Clearwater FL 33760
800-659-2080

*National Aviation Academy - TB is accredited by the
Commission of the Council on Occupational Education*

7840 Roswell Rd., Bld. 300, Ste. 325, Atlanta, GA 30350
770-396-3898 / FAX: 770-396-3790

NEW ENGLAND CAMPUS:

150 Hanscom Dr., Bedford MA 01730
800-292-3228

*This institution is accredited by the Accrediting
Commission of Career Schools and Colleges*

2101 Wilson Blvd., Ste. 302, Arlington, VA 22201
703-247-4212



For more information about our graduation rates,
the median debt of students who complete the
program, and other important information, please
visit our website at: www.naa.edu/success