North Central Institute is proud to be accredited, approved and/or licensed by the following:

	Commission of the Council on Occupational Education, 7840 Roswell Road, Building 300, Suite 325, Atlanta, GA 30350, Telephone: 770-396-3898/Fax: 770-396-3790
	The Federal Aviation Administration under Part 147 of the Federal Aviation Regulations for Aviation Maintenance Technician School. www.faa.gov
www.va.gov	Approved for the training of Veterans utilizing their educational benefits. www.va.gov
	The Department of Education administering Title IV funding for students loans and grants. www.ed.gov
	Member of the Aviation Technical Education Council (ATEC) www.atec-amt.org
www.tn.gov/thec	Tennessee Higher Education Commission for the purpose of coordination and supporting the efforts of post-secondary institutions in the state of Tennessee.

North Central Institute

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Aviation Maintenance Technician (AMT 147) Program

The wing-span of the A380 is longer than the aircraft itself. Wing-span is 80m, the length is 72.7m.

The world-wide 747 fleet has logged more than 78 billion kilometers, equivalent to 101,500 trips to the moon and back

- Program Objective: The Aviation Maintenance Technician (AMT 147) Program imparts knowledge and skills to those striving to become aircraft technicians or for career enhancement in aviation and related industries
- The program is comprised of approximately 40% lecture and 60% hands-on training for a total of 56 semester hours. Overall program length is 1960 contact hours.

Program Requirements

The Federal Aviation Administration (FAA) requires students that enroll in the Aviation Maintenance Technician (AMT)147 Program must be able to read, write, speak, and understand the English Language and be at least eighteen (18) years of age prior to testing for A&P certification.

Associates Degree

Take the next step and earn an Associate Degree. Upon receiving certification, students will need only three additional courses (9 semester hours); one English, one Business and one Humanities course to complete an Associate of Applied Science Degree (AASD).

Tuition Assistance (TA)

If you are planning on using TA our Admissions Department can walk you through the process, prior to registering for the program.

Job Placement

NCI offers job placement assistance to all students at no cost. Although successful placement cannot be guaranteed, NCI's staff makes every effort to assist students in obtaining desirable employment.

Financial Aid

State and Federal Programs are available to help students finance their education. NCI participates in the Pell Grant, William D. Ford Federal Direct Loan Program, and Parent Plus Loan Program, along with Tennessee State Programs (TSAC). Those eligible may also use their Veterans Educational Benefits towards financing the program.

North Central Institute's Mission:

To provide quality education and motivation to all students, encouraging the development of technical skills, professional values and knowledge pertinent to their chosen career field.

According to Avjobs.com:

Aviation Maintenance Mechanics (including Airframe and Powerplant technicians, avionics technicians and instrument repairman) have the important responsibility of keeping airplanes in a safe condition to fly. In this effort they service, repair, and overhaul various aircraft components and systems including airframes, engines, electrical and hydraulic systems, propellers, avionics equipment, and aircraft instruments.

The successful aircraft mechanic should have an above average mechanical ability and a desire to work with his hands. He or she should also have an interest in aviation, appreciation of the importance of doing a job carefully and thoroughly, and the desire to learn throughout a career.

Aircraft mechanics generally work 40 hours a week on eight-hour shifts around the clock, and overtime work is common.

Avjobs 2016 supplied a link for an updated look at salaries in the aviation industry. You can view this link at AviationSalary.com. Once you have arrived on the site, you can click to view salary or hourly projected wages.

A quick glance of our lab here at NCI. Come in for a Tour!

COST BREAKDOWN

Prices below are effective Sept 2021

Total Program Credit: (in s*emester hours)*	56 courses 1 SH each: 56 SH
NCI Application Fee:	$ 50
Tuition (per course):	$ 292
Technology/Lab Fee	$ 1,450
General, Airframe, & Powerplant Textbooks:	$ 524
Tuition for All Courses: *(excluding books, tools, NCI fees, cost of Written and Oral & Practical Exams)*	$16,352
Additional Cost	
FAA Written Exams:	$ 175 each
FAA Oral & Practical Exams *(paid directly to Designated Mechanic Examiner)*	$ 1500

Prices are subject to change without notice

All fees must be paid in US currency

NCI accepts cash, money orders, Visa, & MasterCard

For more information about gainful employment go to: www.nci.edu/GE

AVIATION MAINTENANCE TECHNICIAN PROGRAM INFORMATION

Required Materials:

Textbooks, tools and supplies as listed in the NCI Catalog

www.nci.edu/catalog

Program Duration:

17 months Full-Time and 34 months Part-Time

Term Start Date	Term End Date	Registration Deadline/ Orientation date
24 Oct 23	12 Feb 24	05 Oct 23 / 06 Oct 23
15 Feb 24	23 May 24	01 Feb 24 / 02 Feb 24
29 May 24	05 Sep 24	16 May 24 / 17 May 24
10 Sep 24	19 Dec 24	29 Aug 24 / 30 Aug 24

Schedule subject to change without notice.

Class Schedule: Monday - Friday 7:30 - 3:00 p.m. DAYS

Monday - Friday 6:00 - 9:30 p.m. NIGHTS

Escrow Program for AMT 147 students still in high school -

School students in grades 9-12 have the opportunity to pursue an FAA Airframe and Powerplant certification. Admission requirements for the Escrow Program are described in the NCI Catalog.

The focus of NCI's program is on theory, concepts, and hands on skills essential for maintenance requirements and in keeping aircraft in an airworthy condition. An Aviation Maintenance Technician, often referred to as an A&P, is responsible for maintaining aircraft in accordance with the Federal Aviation Administration's (FAA) standards. Employment opportunities are plentiful and while most often in the Aviation Industry, A&P's are sought after in other industries for the skills they possess.

FAA AMT 147 Curriculum

General Curriculum:

General is prerequisite to Airframe and/or Powerplant. General requires 420 contact hours. General courses are the basic systems and knowledge needed to understand the certification sought in Airframe and Powerplant sections.

GN110 Basic Mathematics
GN111 Physics
GN112 Weight and Balance
GN120A Basic Electricity
GN120B Advance Electricity
GN130 Material and Processes
GN131 Fluid Lines and Fittings, Cleaning & Corrosion
GN140 Aircraft Drawings
GN150 Ground Operations & Servicing
GN160 Mechanic Privileges & Limits
GN161 Maintenance Publications
GN300 Application of General Subject Principles

Airframe Curriculum:

Airframe requires 770 contact hours and deals with all parts of an aircraft that house the Powerplant along with the operations of the aircraft.

AF215 Aircraft Structures and Basic Aerodynamics
AF220A Basic Sheet Metal
AF220B Advanced Sheet Metal
AF221 Assembly & Rigging Aircraft
AF225 Welding
AF230 Composite Structure and Repair
AF231 Aircraft Fabric
AF232 Aircraft Finishes
AF233 Aircraft Wood
AF240 Aircraft Instruments
AF241 Aircraft Avionics
AF245 Aircraft Electrical Systems
AF250 Hydraulic and Pneumatic Power System
AF251 Landing Gear
AF253 Cabin Atmosphere Control Systems
AF254 Airframe Fuel Systems
AF255 Fire Protection, Ice and Rain Control
AF256 Position & Warning
AF260A Airframe Inspection I
AF260B Airframe Inspection II
AF260C Airframe Inspection III
AF300 Application of Airframe Subject Principles

Powerplant Curriculum:

Powerplant is the operating system that enables the aircraft to fly and requires 770 contact hours.

PP214 Reciprocating Engine Theory, Design & Construction
PP215 Reciprocating Engine Carburetor Systems
PP216 Reciprocating Engine Fuel Injection System
PP217A Reciprocating Engine Maintenance and Overhaul I
PP217B Reciprocating Engine Maintenance and Overhaul II
PP217C Reciprocating Engine Maintenance and Overhaul III
PP217D Reciprocating Engine Maintenance and Overhaul IV
PP220 Lubrication Systems
PP221 Induction and Exhaust
PP222 Powerplant Instruments and Cooling
PP223 Engine Fire Protection
PP224 Engine Electrical Systems
PP225 Powerplant Ignition
PP226 Powerplant Starting Systems
PP227 Powerplant Inspection
PP230 Turbine Engine Development, Theory, Design & Construction
PP231 Turbine Fuel Metering System
PP232A Turbine Engine Maintenance and Overhaul I
PP232B Turbine Engine Maintenance and Overhaul II
PP240A Propellers I
PP240B Propellers II
PP300 Application of Powerplant Subject Principles

Prepping

Working with Nickel-cadmium batteries, also known as NiCad.