Confederation COLLEGE

Aviation Technician - Aircraft Maintenance

CREDENTIAL	PROGRAM CODE	AREA OF INTEREST	LOCATION	DURATION
Ontario College Diploma	Fall: 0301	Aviation	Thunder Bay	2 -year

Overview

Sure, putting together small engines or fixing up cars can be fun. But do you have what it takes to keep a precision aircraft flying with all its systems, power plants, and aerodynamics?

Confederation College's two-year Aviation Technician – Aircraft Maintenance Co-op diploma program teaches you everything you need to know to prepare for the Transport Canada Aircraft Maintenance Engineer (AME) license. Get the hands-on experience you need to maintain, repair and troubleshoot complex aircraft systems. Topics include aircraft construction and science, electrical, airframe systems and inspection along with piston and turbine engines.

Top Highlights

- Designed and developed in consultation with aircraft maintenance industry and Transport Canada
- Hands-on learning with real equipment and a co-op work placement between 1st and 2nd year.
- Receive up to 21 months' credit towards experience requirements for an Aircraft Maintenance Engineer's Category "M" license (with 95% attendance record)
- Receive your WHMIS certificate, Human Factors certificate and Aeronautical Restricted Radio Operator license upon successful completion of those areas

Employment Opportunities

Aircraft Maintenance personnel are in high demand.

Graduates have found employment with a variety of companies, including Major and Regional Airlines, Charter companies, Air Taxi services to name a few. The fixed and rotary wing training has afforded graduates the option of pursuing a career in airplanes or helicopters.

There are many different career paths in the world of aviation.

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Aviation Technician - Aircraft Maintenance

Admission Requirements

- Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels with:
  - Grade 12 English (C/U) Level and,
  - any Grade 12 Mathematics (C/U) Level.
- or successful completion of the Mature Student Assessment.
- or successful completion of the General Education Development Test (GED).
- or appropriate credits from the Academic and Career Entrance program (ACE).

Other Recommended Courses

- Grade 11 or 12 Physics.

Alternative Pathways

If you do not meet the entrance requirements, we encourage you to apply for the Pre-Technology program to facilitate success in your Technology path.

For all graduates of the Aviation Technican-Aircraft Maintenance Program there are 2 seats available into the Aviation Flight Management Program, provided entrance requirements are met.

First Semester

AM 130	Aircraft Construction and Science
AM 170	Basic Circuits
AM 171	Basic Circuits Lab
AM 175	Aircraft Reciprocating Engines Theory
AM 176	Introduction to Reciprocating Engines Lab
AM 178	Practical Aviation Mathematics
AM 194	Standard Practices
AM 195	Standard Practices Lab

Second Semester

AM 230	Advanced Theory of Flight
AM 270	Power Generation/Distribution
AM 271	Power Generation/ Distribution Lab
AM 275	Reciprocating Engines Systems
AM 276	Reciprocating Engines Systems Lab
AM 288	Introduction to Gas Turbine Powerplants
AM 294	Metallic Structures & Aeronautical Prod.
AM 295	Metallic Structures & Weight & Bal Lab
AS 332	Workplace Readiness

Summer Co-Op

AM 399 Aircraft Maintenance Co-op Work Term

Third Semester

AM 300	AME Responsibilities
AM 370	Flight Instrumentation
AM 371	Instrumentation Lab
AM 375	Reciprocating Aero Engines Theory
AM 376	Reciprocating Engine Maintenance Lab
AM 382	Rotary Wing Theory of Flight
AM 384	Rotary Wing Theory of Flight Lab
AM 388	Gas Turbine Powerplant Maintenance
AM 389	Gas Turbine Powerplant Maintenance Lab
AM 394	Airframe Systems & Flight Control
AM 395	Structural Repair and Flight Control Lab
GE	General Elective

Fourth Semester

AM 400	Canadian Aviation Regulations
AM 403	Composites / NDT
AM 470	Aircraft Advanced Avionics and Electrical Systems
AM 471	Avionics Maintenance Procedures
AM 483	Rotary Wing Maintenance
AM 488	Gas Turbine Aero Engine Theory
AM 489	Gas Turbine Aero Engine Shop
AM 490	Airframe Systems & Inspection
AM 495	Aircraft Systems & Inspection Lab
GE	General Elective

Have questions? Want to apply?

Contact recuitment@confederationcollege.ca

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