



Aircraft Maintenance Engineer

This booklet was prepared to answer some common questions about Aircraft Maintenance programs at Canadore College and obtaining an A.M.E. licence.



Canadore Programs

The following aircraft maintenance programs offered at Canadore College are accredited by Transport Canada.

Our graduate's leave with the required basic training as well as time applied to their apprenticeship*.

* Accreditation is dependent on meeting the minimum grade in each course and program attendance.



We also offer a 1-year introductory aircraft maintenance course, called Aviation Fundamentals.

If you lack the prerequisites for the programs listed above, you may qualify for acceptance into the aviation fundamentals course.

If you pass all courses in this program, you will be able to apply for one of the accredited programs. There may even be a transfer credit for Math and English.

The courses offered are:

Aircraft Structural Repair Technician (ASR)

One Year - Ontario College Certificate
10 months accreditation to 'S'

AVIATION TECHNICIAN

Aircraft Maintenance (AMT)

Two Years - Ontario College Diploma
18 months accreditation to 'M'

✦ Recognized by the **Canadian Armed Forces CAF-ACE**

AVIATION TECHNICIAN

Avionics Maintenance (AVN)

Two Years - Ontario College Diploma
18 months accreditation to 'E'

AVIATION TECHNOLOGY

Aircraft Maintenance and Avionics

Three Years - Ontario College Advanced Diploma
24 'M'

✦ Recognized by the **Canadian Armed Forces CAF-ACE**

AVIATION TECHNOLOGY

Aircraft Maintenance and Structures

Three Years - Ontario College Advanced Diploma
24 'M' or 12 'S'

✦ Recognized by the **Canadian Armed Forces CAF-ACE**

Aviation Fundamentals

One Year - Ontario College Certificate



What is an A.M.E.?

An A.M.E. is an aircraft maintenance engineer.

When an individual has obtained an A.M.E. licence, he/she has been granted the authority to declare aircraft or their components airworthy and safe for flight. Whenever any type of service work or repairs is made, an A.M.E. must release the aircraft before it can be flown.

An A.M.E. may hold one or all of the following ratings:

- E** Avionics (electronics)
- M1** Mechanic (small aircraft and helicopters)
- M2** Mechanic (heavy aircraft and helicopters)
- S** Structures

The Role of the Structural Repair Technician

The structural technician is called upon to carry out:

- Major and minor repairs to all types of airframes, flight controls, and sub assemblies
- Airframe modification
- Airframe component removal and replacement
- Composite structure repair and modification
- Repairs to wood and fabric aircraft
- It is the responsibility of the “S” technician to restore or maintain the integrity of the airframe, so it can support the flight loads for which it was designed.

How do I get an A.M.E. licence?

To obtain an A.M.E. licence you must do the following:

- 1** Decide which rating you are best suited for.
- 2** Get basic training for the chosen rating. (normally, at a post-secondary institution).
- 3** Find work, be employed for the minimum apprenticeship period, and satisfy the mandatory tasks for the given rating.
- 4** Keep a logbook of all work and when it is complete, apply to **Transport Canada**.
- 5** Once approved you need to write the Transport Canada CAR’S exam (Canadian Aviation Regulations).

The Role of the Avionics Technician

The avionics technician is called upon to carry out:

- Component level repair of communication and navigation equipment
- Installation of new equipment and aircraft systems
- Flight line troubleshooting
- Inspection, repair, and overhaul of communication, navigation, and integrated aircraft systems
- It is the responsibility of the “E” technician to sustain the flight ready status of the aircraft by maintaining the electronic equipment and systems for a fit and safe state for flight.



The Role of the Aircraft Technician.

The maintenance technician is called upon to:

- Service, maintain, and inspect all aircraft systems and components
- Troubleshoot and repair faulty systems and components
- Repair, inspect, and overhaul of dynamic components
- Repair, inspect, and overhaul the aircraft engines and sub assemblies
- It is the responsibility of the “M” technician to ensure the continuing airworthiness of the aircraft, including some Structural Repair and Avionics duties.

Canadore is a leader in aviation training.

Prepare for a unique experience you won't find anywhere else. Our 90,000 sq. ft. Aviation Technology Campus is home to top-of-the-line, industry-standard training tools, aircraft, and dedicated faculty and staff.

The skills and training Canadore students receive set them up for stellar careers in the aviation industry across Canada and around the world.

What else should I know about these programs at Canadore?

All aircraft are operated within a maintenance program, ensuring recurring inspection of the complete aircraft, and overhaul of critical components at specific intervals.

A.M.E.'s must undergo extensive training to learn specific systems and the required maintenance practices.

Almost half of our training is practical, hands-on training.

Tools and Personal Safety Equipment

Students in the AMT program are required to purchase a beginner tool set. For AVN students a smaller set is required.

Students are responsible for purchasing the tools on the tool list provided. We assist by working with a local vendor to source professional quality tools offered at a discounted price just for our students.

Attendance and Grades

Transport Canada allows students to miss a total of 5% of the program hours for illness, bereavement, etc.

The Transport Canada requirement to pass each course is a minimum grade of 70%. When the course has a practical component, theory and practical each require a minimum grade of 70%.