

ÉNA

ÉCOLE NATIONALE D'AÉROTECHNIQUE

COLLÈGE ÉDOUARD-MONTPETIT

National Institute of Aeronautics



The National Institute of Aeronautics is the largest college-level aeronautical Technological Institute in Canada and the only one in Quebec that trains technicians in aircraft construction, aircraft maintenance and avionics.

History

- 1964** Creation of the *Institut aérotechnique du Québec*
- 1968** Merged with Édouard-Montpetit College
- 1978** The new official name: *École nationale d'aérotechnique*
- 1993** Creation of CTA: *Centre technologique en aérospatiale* (Aerospace Technology Centre)
- 1997** Creation of CIFA: *Conseil international de formation aérospatiale* (International Council for Aerospace Training)

National Institute of Aeronautics



CAPACITY: 1 300 STUDENTS

STAFF: 209 EMPLOYEES

FACILITIES: OVER \$50 M CAN, INCLUDING:

- 5 HANGARS
- 35 WORKSHOPS
- 28 AIRPLANES AND HELICOPTERS

Regular Programs

987 students for 2009

- Aircraft Construction
- Aircraft Maintenance
- Avionics
- Work-Study Alternance Program
available in all Programs

Continuing Education

The Continuing Education division of ÉNA, with 30 years of experience working with industry, offers professional support in a variety of formats:

- customized courses,
- seminars,
- workshops,
- fast-track programmes,
- consulting services

Continuing Education

- Programs
 - Aircraft Maintenance Technology
 - Aircraft Structural Repair Technology
 - Production Planning of Aircraft Components
 - Aircraft Gas Turbine Engine Repair and Overhaul Technology
 - Aviation Painting
 - Avionics
- Re-training Courses for Upgrading
 - CATIA – V5 (Computer Aided Three Dimensional Interactive Application)
- Custom-made Courses

Partnership with the Canadian Forces

- Basic training program for Aircraft Structural Repair Technicians (CAMC-accredited course)
- Shared offices, classrooms, equipment and pedagogical support services for CH-146 type training courses and other technical courses

Aerospace Technology Centre (CTA)

The Aerospace Technology Centre (Centre technologique en aérospatiale) is an applied research center. It was set up by ÉNA to provide SMEs with innovative and developmental support to increase technical expertise, productivity and competitiveness as well as the quality of their products and services.

Aerospace Technology Centre (CTA)

- 11 staff members assigned to manufacturing processes. (Engineers and technicians)
- 50 projects annually

Easy access to :

- 100 professors
- \$ 50 million worth of technical equipment
- A large network of specialists

Aerospace Technology Centre

Fields of Expertise

- High Performance Machining
- Machining Process Simulation and Numerical Optimisation
- CAD/CAM with CATIA V5
- Machine Tool Metrology
- Composite Materials
- Avionics
- Hydraulic Systems
- Quality Control

On the National and International Scene

- Co-operative Education Program internships for students in the Quebec aerospace industry
- International internships for students in foreign countries
- Recognized international competency standards established by the *International Council for Aerospace Training*
- Specialized proficiency courses offered through ÉNA in Quebec or abroad for employees of the aerospace industry

International Council for Aerospace Training (CIFA)

With the world-wide growth of aeronautics, the labour force needs to be highly qualified and adaptable for the strategic positioning of aerospace companies, international recognition of training centers and national security. Part of CIFA's mandate is to:

- Establish international competency standards that respond to government regulations
- Maintain these competency standards through a training watch (technological and regulation)
- Act as a consultant regarding training in aeronautical fields.

The Aerospace Industry

- Quebec is one of the rare places in the world where every component of an aircraft can be designed, manufactured and maintained.
- Quebec employs more than 60 % of the Canadian workforce in the aerospace industry and expects to reach 51 368 jobs by January 2010.

Widespread Employment Opportunities

Quebec has over 250 SMEs that hire subcontractors, service suppliers and technicians responsible for the maintenance, repair and overhaul of aircraft.

Industrial Partnerships

- Air Canada Technical Services (ACTS)
- Bombardier Aerospace
- Bell Helicopter Textron
- CAE
- Department of National Defence
- Héroux Devtek
- Pratt & Whitney Canada
- Rolls Royce Canada

Educational Partnerships

- École des métiers de l'aérospatiale de Montréal (ÉMAM)
- École de technologie supérieure (ÉTS)
- École Polytechnique de Montréal

Associations

- Aéro Montréal
- Association des écoles canadiennes d'aérotechnique agréées par Transports Canada
- Association québécoise du transport aérien (AQTA)
- Canadian Association of Dean of Aerospace (CADA)
- Chambre de commerce et d'industrie de la Rive-Sud (CCIRS)

Associations

- Comité pour l'adaptation de la main-d'œuvre en aérospatiale (CAMAQ)
- Comité régional ACCORD
- Développement aéroport Saint-Hubert de Longueuil (DASH-L)
- Développement économique Longueuil (DEL)
- Aéro Montréal (Grappe aérospatiale du Montréal métropolitain)
- Institut de formation aérospatiale (IFA)



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