

**NORTHERN LIGHTS COLLEGE
REGISTRAR'S OFFICE
PROGRAM INFORMATION AND COMPLETION GUIDE**

Program Name: Aircraft Mechanic Basics
Credential/Certification: Certificate in Aircraft Mechanic Basics
Date Submitted: October 2021
Effective Date: September 2022

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Program Description:

Take the first steps towards a career as an Aircraft Maintenance Technician with Northern Lights College Aircraft Mechanic Basics certificate training program! Learn new job skills in an exciting and challenging industry in our one-year program. No Transport Canada accreditation is provided for the certificate program but it may meet the acceptable criteria in the Canadian Aviation Regulations 566.07 (2) (a)

Students who successfully complete the certificate program may choose to further their training by completing the Transport Canada Accredited Aircraft Maintenance Technician Diploma, which is accredited with 1800 hours towards the AME License. If you chose this route, your attendance must remain at 95% or higher, or no more than 45.5 hours missed, to be eligible for the license.

Students will study aircraft safety, hangar hazards, airframe structures, engines and aircraft systems. They will learn to interpret technical manuals, drawings and blueprints, to disassemble and remove defective parts, to assemble and install replacement parts and test aircraft systems.

Admission Requirements:

Math – one of the following:

BC Pre-Calculus Math 11 or BC Pre-Calculus Math 12 with a minimum final grade of C, or equivalent.

Alberta Applied Math 20, Math 20-3, Math 20-2, Pure Math 20, or Math 30-1 with a minimum final grade of C.

MATH 040 or higher, with a minimum final grade of C, or equivalent.

English – one of the following:

BC Language Arts 11 Courses – 4 credits earned, minimum individual grade of C, or equivalent.

BC Language Arts 12 Courses – 4 credits earned, minimum individual grade of C, or equivalent.

Alberta English Language Arts ELA 20-2, or ELA 20-1 with a minimum final grade of C.

Alberta English Language Arts ELA 30-2, or ELA 30-1 with a minimum final grade of C.

ENGL 040 or higher, with a minimum final grade of C, or equivalent.

IELTS score of 6.0 overall with no band less than 5.5 or equivalent English placement test and score.

Concurrent studies (dual credit)

Math – one of the following:

BC Pre-Calculus Math 11 with a minimum final grade of C, or equivalent.

BC Pre-Calculus Math 12 with a minimum final grade of C, or equivalent.

English – one of the following:

BC Language Arts 11 Courses – 4 credits earned, minimum individual grade of C, or equivalent.

BC Language Arts 12 Courses – 4 credits earned, minimum individual grade of C, or equivalent.

A BC grade 11 core science (preferably physics) or equivalent with a minimum grade of C.

One Grade 10 level shop class is also recommended.

Length of Program: (weeks and total hours) Approximately 38 weeks, 910 hours

Program Intake: (start/finish dates) September

Available Seats: 6

Application Deadline: 30 days prior and on a case by case basis until start.

Career Prospects: Employment may be found working for airlines and various other aviation-related businesses such as air taxis, police, air ambulances, survey companies, agriculture, and pilot training facilities. Some flying clubs also employ aircraft engineers. Others opportunities include employment as instructors, administrative sales personnel, technical reps, accident investigators or the Canadian Armed Forces.

They can also be employed by aircraft manufacturers in production fitting or design and development.

Affiliations/Partnerships: SD59, SD60

Location: Dawson Creek Campus

Additional Requirements/Supplies: (fees, supplies, materials)

Two pairs of full-sleeved coveralls, footwear having CSA safety-toe protection with soft soles for climbing on aircraft, and CSA approved safety glasses with clear lenses.

Textbooks.

Students are required to have a computer (PC or laptop) with minimum computer requirements as listed on the NLC website (www.nlc.bc.ca/Services/Information-Technology/minPC).

For Student Residence Fees on campus in Dawson Creek see website information at <https://www.nlc.bc.ca/Admissions/Student-Residences/Dawson-Creek-Campus>

Eligibility for Canada Student Loans: (Yes or No)

Yes

Required Minimum Grade: (overall and/or minimum within a course)

70%

Residency Requirement: (percentage of courses which must be taken at NLC)

100%

Required Courses: (list courses required to complete credential and total hours for each course)

Semester 1

AMT101 General Introduction -10hrs

AMT102 Aerodynamics Fixed Wing Aircraft -25hrs

AMT103 Materials Aircraft Structures -40hrs

AMT104 Aircraft Hardware Approved Parts -24hrs

AMT105 Aircraft Hydraulic Pneumatic Systems -20hrs

AMT106 Aircraft Equipment Introduction -8hrs

AMT107 Basic Aircraft Electricity DC -30hrs

AMT108 Blueprint Design -14hrs

AMT109 Hand Tools -24hrs

AMT110 Aviation Math -10hrs

AMT111 Canadian Aviation Regulations 1 -24hrs
AMT112 Flight Controls Fixed Wing and Rigging -8hrs
AMT114 Practical Projects -218hrs

Semester 2

AMT121 Canadian Aviation Regulations 2 -24hrs
AMT122 Non Destructive Testing Corrosion -24hrs
AMT123 Aircraft Aerodynamics Rotary -16hrs
AMT124 Human Factors in Aviation -8hrs
AMT125 Aircraft Maintenance Inspections -32hrs
AMT126 Basic Electricity AC -16hrs
AMT127 Turbine Engine Theory -24hrs
AMT128 Piston Engines 1- 32hrs
AMT129 Reciprocating Components -54hrs
AMT130 Electrical Systems -37hrs
AMT132 Practical Projects 2 -188hrs