

## DIPLOMA

- Two years
- September start
- Gander Campus

### COURSES

CODE	TITLE	Hrs
<b>Semester 1</b>		
MA1070	Structural Repair Shop Mathematics	30
MA1072	Aircraft Maintenance Mathematics	30
GM1120	General Maintenance Procedures (M, E, S)	30
GM1130	Aircraft Servicing (M, E)	25
GM1140	Standard Workshop Practices (M, E, S)	55
PE1100	Basic Electronics (M, E)	55
PT1115	Reciprocating Engine Fundamentals (M, E)	20
PT1110	Reciprocating Engine Fundamentals (M)	35
AF1130	Aircraft Structures & Materials (M, E, S)	55
PE1140	Basic AC Electronics (M, E)	55
PE1200	Basic Aircraft Electrical Systems (M, E)	55
<b>Semester 2</b>		
PH1300	Physics for Aircraft Maintenance	60
PE2100	Analog Electronics (M, E)	55
GM1320	Aircraft Weight & Balance (M, E)	25
GM1420	Non-Destructive Testing (M)	30
AV1220	Basic Aircraft Instruments I (M, E)	55
AS2120	Aircraft Hydraulics & Pneumatic Systems (M)	25
AS2125	Aircraft Hydraulics & Pneumatic Systems (M, E)	30
GM1550	Maintenance Regulations (M, E, S)	55
TS1550	WHMIS	6
AS2520	Reciprocating Engine Fuel Metering (M)	55
AV1320	Aircraft Communications Equipment (M, E)	55
<b>Semester 3</b>		
AS2225	Aerodynamics & Flight Controls (M, E)	25
AS2220	Aerodynamics & Flight Controls (M)	30
AF1240	Aircraft Structural Repair (M, E, S)	55
DP1840	Motors, Generators & Starting Systems (M, E)	55
AS2165	Aircraft Landing Gear Systems (M, E)	30
AS2160	Aircraft Landing Gear Systems (M)	25
<b>Semester 4</b>		
EG1160	Technical Graphics	60
PT2120	Reciprocating Engine Systems (M)	55
PT2210	Turbine Engine Maintenance (M, E)	55
AV2310	Major Communications Radio Install (E)	55
AV2220	Aircraft Instruments II (M, E)	55
PT2240	Turbine Engine Systems (M)	55
AV1500	Basic Navigation I (M, E)	31
AV1510	Navigation Systems Installation (E)	24
AF1270	Composite Materials (M, S)	55
PE1300	Battery Maintenance (M, E)	25
PE1350	Electrical Power Systems (M, E)	30
<b>Semester 5</b>		
CM2150	Workplace Communications	45
SD1710	Job Search Techniques	15
PE2140	Digital Electronics (M, E)	55
AV2170	Pulse Navigation Systems (M, E)	25
AV2180	Integrated Navigation Systems Installation (E)	30
AS2415	Propellers and Systems (M, E)	20
AS2410	Propellers and Systems (M)	35
AF1280	Stress Skin Repair/Modification (M, E)	25
AF1290	Non-Metallic Structures (M)	12
AV2310	Major Communications Radio Install (E)	55
GM1570	Corrosion Control (M, E, S)	18
AS2335	Aircraft Systems, (M, E)	30
AS2330	Aircraft Systems (M)	25
RW3140	Rotary Wing Aircraft (M)	55
<b>Semester 6</b>		
RW3141	Rotary Wing Aircraft Systems (M)	55
AV3110	Monitoring and Digital Systems (E)	55
AV2510	Auto Flight Theory (M, E)	25
AV2540	Auto Flight Ramp Testing (M)	15
AV2570	Auto Flight Troubleshooting (E)	15
PT2121	Reciprocating Engine Overhaul (M)	55

## INDUSTRIAL TRADES

# Aircraft Maintenance Engineering Technician

This two-year Aircraft Maintenance Engineering Technician program offers training in the inspection, maintenance, and repair of aircraft and aircraft components. Topics include the role of the Aircraft Maintenance Engineer as being responsible for aviation safety and airworthiness. Courses cover all aspects of aircraft maintenance for both fixed wing and rotary wing aircraft and include safety practices, ground handling, inspection techniques, power plant, structural repair, aircraft systems, and avionics. Upon completion of the two-year program students are awarded an Aircraft Maintenance Engineering Technician diploma.

### ACCREDITATION

This program is accredited by Transport Canada as meeting the basic training requirements for the Aircraft Maintenance Engineer's license categories "M1", "M2" and "E". Transport Canada also grants qualified graduates a 21-month experience credit towards the 48 months required and credit for having completed the required knowledge exams. After successful completion of this program and the required work experience, apprentices qualify to write an exam in Aircraft Maintenance Regulations to acquire an Aircraft Maintenance Engineer's license.

### OBJECTIVES

1. To develop an awareness of safety practices in the aviation industry.
2. To develop the skills and knowledge required to work in the aircraft maintenance field.
3. To develop and strengthen the related knowledge and skill in subjects which complement and support the technical training.
4. To develop positive attitudes and behaviour that will enable students to become successful in the industry.

### ENTRANCE REQUIREMENTS

Comprehensive Arts and Science Certificate (College Transition) with MA1040 (Math Fundamentals I) and MA1041 (Math Fundamentals II)

### OR

High School Graduation Certificate with a 60% average in nine level 3000 credits or equivalent, including the following:

Mathematics (2 credits) chosen from Advanced courses: 3201, 3211, 3221, 3231, 3271, 3281, 3291, 4220 (50% minimum)

### OR

Academic Mathematics courses: 3203, 3200, 3210, 3230, 3270, 3280, 3290 (50% minimum)

### OR

Mathematics (4 credits) chosen from Advanced courses: 2205, 3205 (50% minimum) in each course

### OR

Academic: 2204 (50% minimum), 3204 (60% minimum)

### OR

Grade XI Public Examination pass with a 60% average, including a 50% pass in Matriculation Mathematics or 50% in Honor Mathematics.

### OR

Persons 19 years of age or older, who have been out of school for at least one year and do not meet the educational prerequisites for this program, may be considered on an individual basis under the Mature Student Clause.

### OR

Adult Basic Education (Level III) Graduation indicating completion of the academic stream including the following Mathematics courses from one of the following sections:

Mathematics IM3212, IM3213, and IM 3216

### OR

Mathematics IM3219

### OR

Adult Basic Education (Level III) Graduation with a Degree and Technician Profile (or Business Related College Profile) including the following Mathematics courses: 1104A, 1104B, 1104C, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C. Applicants with Adult Basic Education (Level III) Graduation with a different Profile may be eligible for admission to the program provided the appropriate selection of courses, including those outlined above, have been completed

### EMPLOYMENT OPPORTUNITIES

Graduates may find employment with fixed wing or rotary wing commercial airlines, aircraft manufacturers and repair and overhaul companies. In addition, there are opportunities with private operators, flying schools and government departments.

