

# Aircraft Structural Repair Technician

The Aircraft Structural Repair Technician is responsible for the assessment of damage, control of corrosion, repairs, modifications, and replacement of aircraft structures and structural components using recognized techniques and specialized tools and equipment. Students are trained in the maintenance, repair and fabrication of aircraft structural components. In addition to training with wood, fabric and sheet metal materials, this program includes extensive training in modern composite materials.

## OBJECTIVES

1. To develop positive attitudes and behaviours that will enable graduates to become successful in the industry.
2. To expose students to the techniques, standards and practices of structural repair that conform to Transport Canada guidelines for the occupation.
3. To provide a broad overview of aircraft maintenance and repair functions with specific emphasis on safety practices in the industry.

## ENTRANCE REQUIREMENTS

Eligibility for admission requires the applicant to meet one of the following academic criteria:

### 1. High School

High School Graduation

### 2. Comprehensive Arts and Science (College Transition)

Comprehensive Arts and Science Certificate (College Transition Program)

### 3. Adult Basic Education

Adult Basic Education (Level III) Graduation with General College Profile (or Business Related College Profile or Degree and Technical Profile). It is strongly recommended that courses include the following:

- i. Mathematics MA3107A, MA3107B, MA3107C
- ii. Science 3101, 3102, 3103

### 4. Mature Student Status

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

## EMPLOYMENT OPPORTUNITIES

Graduates may find employment in the following areas:

- Aircraft repair stations
- Aircraft manufacturing facilities
- Composite fabricators
- Composite repair stations
- Helicopter service centres
- Helicopter overhaul facilities
- Regional and national airlines

## CERTIFICATE

- One year
- September start
- Gander Campus

## COURSES

CODE	TITLE	Hrs
<b>Semester 1</b>		
MA1070	Structural Repair Shop Mathematics (M,E,S)	30
GM1550	Maintenance Regulations (M,E,S)	55
GM1120	General Maintenance Procedures (M,E,S)	30
GM1105	Aircraft Plumbing (S)	25
GM1140	Standard Workshop Practices (M,E,S)	55
AF1130	Aircraft Structures & Materials (M,E,S)	55
AF1240	Aircraft Structural Repair (M,E,S)	55
AF1220	Aircraft Structures, Wood, Fabric, Tubular (S)78	
AF1400	Specialized Processes and Fixtures (S)	60
<b>Semester 2</b>		
EG1160	Technical Graphics (M,E,S)	60
SD1710	Job Search Techniques	15
AF1250	Aircraft Stress Skin Repair (S)	60
GM1570	Corrosion Control (M,E,S)	18
GM1580	Corrosion Control (S)	42
AF1270	Composite Materials (M,S)	55
AF2110	Aircraft Maintenance Fundamentals (S)	60
AF1500	Windshields, Windows and Lenses (S)	49
GM1600	Structural Damage/Repair and Assembly (S)72	
TS1550	WHMIS	6
<b>Semester 3</b>		
AF1340	Advanced Composite Materials (S)	60
GM1525	Sheet Metal Fabrication (S)	120
TS1530	Standard First Aid	13

Students will receive Transport Canada credit towards the "S" license upon completion of the program.

