

SaLT College

Aviation Diploma Program

The program, jointly delivered by Northwestern Airlease of Fort Smith and SaLT College, is designed to provide training for Northerners seeking to become commercial pilots. This two-year program (5 terms, each 15 weeks in length) combines classroom theory and flight training that will enable graduates to exit the program with their commercial pilot's license, their Multi-Engine IFR Rating, and their Group I Instrument Rating. The aviation portions of the program are enhanced by skill and knowledge related to the general aviation industry. There will be elective courses on First Aid, Survival, floats, skis, off strip landing, and bush flying.

Graduates of the program will be prepared for employment with small or medium sized air carriers flying wheel, float, or ski equipped planes. Graduates will be qualified to act as first officers in small to medium sized twin engine aircraft, and pilot in command on a single engine aircraft.

Program Eligibility

Applicants to this program must meet the following criteria;

- be 17 years of age or older;
- Math 20-2 and English 20-2. Mature students (19 years or older) can be evaluated in the interview.
- applicants must pass a Class I Medical administered by a Transport Canada approved physician
- applicants must submit a letter detailing their interest in the program and reasons for applying
- applicants will be assessed by a review team consisting of two representatives from Northwestern Airlease Ltd and one representative from SaLT College.
- priority will be given to Indigenous and NWT residents.
- applicants will demonstrate a commitment to a career in aviation in a letter of interest.

Program Objectives

- To prepare commercial pilots.
- To provide individuals with knowledge and skills related to business management and customer service in the aviation industry.
- To train pilots in the North for the North.

Completion Requirements

Students are required to complete all courses specified in the program outline. The pass mark for academic courses will be 50% unless otherwise stated in the syllabus. The pass mark for all aviation related courses and Transport Canada flight test and exams will be based on Transport Canada standards.

Length is two years

Year	Course Number	Course/Module Name	Lab/ Practicu m Hours	Course Hours	Credit
<i>Term one: 15 weeks</i>			<i>Flight hours</i>		
1	101	Computer Technology in Aviation		45	3
1	102	Professional Flight Training I	50	10	
1	001	Transportation of Dangerous Goods		15	
1	104	Ground School		45	3
1	105	Airmanship for the North		30	2
<i>Term two: 15 weeks</i>					
1	106	Professional Flight Training II	25	10	
1	107	Technical Writing		45	3
1	002	Wilderness First Aid		16	
1	108	Cross Country Preparation I	50	10	
2	208	Small Business Management		45	3
<i>Term 3: 15 weeks</i>					
2	201	Commercial Flight Training I	35	15	
2	202	Commercial Ground School		45	3
2	203	Advanced Navigation		30	2

2	109	Basic Aircraft Mechanics		45	3
2	204	Meteorology		45	3
<i>Term 4: 15 weeks</i>					
2	004	Wilderness Survival		20	
2	206	703 Course Ski/Tail wheel	6	4	
2	207	Customer Relations Management		45	3
2	209	Advanced Aircraft & Systems		35	2
<i>Term 5: 15 weeks</i>					
2	211	Float Planes	7	5	
2	213	Multi-Engine IFR Ground School		30	2
2	214	Multi-Engine IFR Flight Training	55		2
2	210	Business & Aviation Law		45	3

Course/Module Descriptions

001 Transportation of Dangerous Goods

Students will learn classifications of Dangerous Goods. This is the standard TDG program.

002 Wilderness First Aid

Wilderness first aid may be necessary for anyone working in the North. The practices of first Aid are similar to but have some variances when a patient cannot reach medical care in a timely manner.

004 Wilderness Survival

The student will learn to care for self and passengers in Northern and remote places. Aircraft repair from basic aviation mechanics course will be alluded to, as well as shelter, signalling and living off the land.

101 Computer Technology in Aviation

The student will learn the specific computer programs currently used in aviation. Upon completion of the course students will be able to demonstrate a basic to intermediate use of the programs.

102 Professional Flight Training

The student will learn the required flight training maneuvers and basic aerodynamics for a pilot's license. The course syllabus is Transport Canada approved and at the completion the student will have an ability to fly and navigate as well as pass the required Transport Canada flight test.

104 Ground School

The student will learn basic theory of flight, air law, meteorology, navigation, flight operations and aircraft systems. This course also provides the knowledge required for the pilot's written exam. Students must successfully complete Ground School before continuing in the Aviation Diploma Program.

105 Airmanship for the North

This course will focus on pilot decision-making and airmanship for the North. Pilot decision-making is an investigative look at flight discipline, attitudes and judgment inside and outside of the cockpit. Specific case studies and misconceptions will be addressed on northern flying and its own particular challenges associated with pilot decision-making. The course will also focus on human physiology and how pilots and passengers are affected by flight.

107 Technical Writing

The student will learn to write effectively for a business environment.

108 Cross Country Preparation I

The Cross-country preparation I course begins with basic day trips to enhance the skills gained through the professional license training. Each flight will be decided on by the instructor, based on the student's ability and skill level. A thorough debriefing with the students will follow to examine both the positive and weak areas of the flight. At the completion of this course, students will have a greater confidence in their abilities and be better prepared to comprehend the commercial work

109 Basic Aircraft Mechanics

This course will cover basic aircraft maintenance. The course will address elementary maintenance which can be done by pilots to bring aircraft back to the main base.

201 Commercial Flight Training I

This course provides advanced flight training on various aircraft types in typical Northern scenarios. The student will master their flying skills and learn to use their new information for a commercial operation. The student will also obtain the required skills for the Transport Canada commercial flight test.

202 Commercial Ground School

This course provides a more in-depth understanding of the basic principles of aviation and thorough knowledge of commercial flight operations. The student will learn the required knowledge for the Transport Canada written exam.

203 Advanced Navigation

Students will study navigation systems such as GPS, ADF, VOR, ILS, DME, and advanced systems such as EFIS and radar equipment.

204 Meteorology

Discernment of weather patterns is a critical skill for pilots. This course introduces the atmosphere and its properties and changes, including air masses, fronts and clouds, as well as storms and other weather phenomenon to be avoided by pilots.

206 703 Course (Ski/Tail Wheel)

The basics of flying a tailwheel aircraft and its characteristics on skis will be covered on the ground and in the air under commercial flight training. Design, construction and care of skis will be addressed as will the topic of emergencies.

207 Customer Relations Management

Customer relationship management (CRM) is a term that refers to practices, strategies and technologies that companies use to manage and analyse customer interactions and data throughout the customer lifecycle, with the goal of improving customer service relationships and assisting in customer retention and driving sales growth. The student will learn CRM software and basic CRM techniques.

208 Small Business Management

The student will gain the knowledge and skill in the development and operation of a small business. Students will learn rudimentary marketing, bookkeeping and taxation, as well the student will develop a business plan for an aviation company or another approved endeavour

209 Advanced Aircraft and Systems

This is a theory course designed to explain the different types of engines and other aircraft systems. Piston, turbine and jet engines will be covered. To operate these systems efficiently a pilot needs to understand how each engine is designed and how they operate. The operation of individual systems such as turbo charging, pressurization, air conditioning and other major topics will be explained and discussed.

210 Business & Aviation Law

This course is an introduction to basic legal issues that frequently arise in Canadian business and in aviation. The emphasis is on developing the ability to recognize and respond appropriately to legal issues involved in common business and aviation transactions.

211 Float Training

This course covers the basics of flying float-equipped, including remote operations. Upon successful completion of this course, students will be certified to operate seaplanes as pilot in command.

213 Multi-Engine IFR Ground School

Students will learn the basic & complex principles of IFR rules, regulations and procedures. IFR in adverse weather will be examined. This course prepares students for the Transport Canada Written Exam.

214 Multi Engine IFR Flight Training

Student will learn the practice & procedures for flying multi-engine aircraft under IFR in normal and adverse weather conditions as well as required air laws & procedures. This course will prepare the student for the practical flight test with Transport Canada.