

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: AIR FLIGHT TRAINING I

CODE NO.: AFT 105-11 SEMESTER: THREE (3)

PROGRAM: AVIATION TECHNOLOGY (FLIGHT)

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DATE: AUGUST 1995 PREVIOUS OUTLINE DATED: MAY 1994

APPROVED: *J.P. Chazotte*
DEAN

95-08-15
DATE

AIR FLIGHT TRAINING I

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TOTAL CREDIT 11

PREREQUISITE(S): Valid CAT 1 medical and satisfactorily completed semester 1 & 2 academics with a 3.0 GPA.

I. PHILOSOPHY/GOALS:

The aim of the Aviation Program is to produce professional pilots within a structured time frame. Upon completion of this course the student shall exhibit competencies in the following area:

Aircraft Operation - a) The student shall be able to operate a light single engine aircraft proficiently and safely.

b) The student shall pass the Transport Canada Private Pilot Flight test within specified time-frames outlined in the Pilot Training Curriculum as contained in the student progress book.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will pass the Private Pilot Flight Test. Candidates with PPLs will pass all the Progress Flight Tests to the private pilot standard.

The flight program will be in accordance with the requirements of the Transport Canada (TC) flight test guide TP2655. The Sault College semester progress flight test or Transport Canada flight test recommendations will be as published and amended from time to time in the students flight progress book.

Responsibilities, professionalism and discipline are an integral part of this program.

The student will know the following material to the PPL Standard as set forth in the Study Reference Guide for Private Pilot Licence Aeroplanes TP5717 (as they apply to aircraft operation):

- 1) AIR LAW - Section 1 Air Law
- 2) NAVIGATION - Section 6 Navigation and Radio Aids
- 3) METEOROLOGY - Section 5 Meteorology

- 4) AERONAUTICS - General Knowledge-Section 2 Airframes and Engines
-SECTION 3 Theory of Flight
-Section 4 Flight Instruments
-Section 7 Flight Operations
-Section 8 Human Factors

III. **TOPICS TO BE COVERED:** are toward study and completion of the Transport Canada Private Pilot Licence (and practical tests).

Flight sequences 1 to 24 as indicated in the DOT Flying Training Manual.

IV. LEARNING ACTIVITIES

REQUIRED RESOURCES

Students will receive dual flight instruction to the solo level and both dual and solo flight training in accordance with the Personnel Licencing Handbook and the Transport Canada Instructor's Guide, to the completion of the Private Pilot's Licence. Various performance tests (See Evaluation Methods Section V throughout this training and Student Progress Book for details).

Pre flight briefings for dual flights will allow the student to review the what, why, and how of the lesson as well as local operational conditions. These will be on a one on one basis with the instructor.

Post flight debriefings will enable the student to discuss the outcomes of the lesson. A critique of the flight including strengths, weaknesses and suggestions for improvement shall be exercised by the instructor.

The remainder of the flight training will consist of dual and solo to the completion of the Private Pilot Licence.

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V. **EVALUATION METHODS:** (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)

The student shall be assessed by:

- a) Scheduled progress flight check as indicated on the semester progress flight check sheet in the Student Progress Book.
- b) Progress write-ups by the instructor following each dual flight. These write-ups will indicate the students day to day progress. Difficulties in addition to the debriefing and write-up will be in as much detail as possible.
- c) Unscheduled progress flight checks will be at the request of the Field Coordinator or CFI (Chief Flying Instructor).
- d) The Transport Canada Private Pilot Flight Test or Semester Final Progress Flight Test, as appropriate.

Final and midterm grades will be indicated by "S" - Satisfactory, "U" - Unsatisfactory or, "X" - Incomplete (not to be used for semester final except as a temporary measure if flight test has not been completed due to weather, etc.)

A "U" (Unsatisfactory) semester end assessment constitutes a failure and termination from the Aviation Flight Program.

VI. **REQUIRED STUDENT RESOURCES**

Flying Training Manual - Transport Canada

Aircraft Handling Manual - Manufacturer

Aeronautical Information Publication - Transport Canada

Proper Flying Attire as recommended by the Field Coordinator

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VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Book Section (TITLE, PUBLISHER, EDITION, DATE, LIBRARY CALL NUMBER IF APPLICABLE)

Periodical Section (MAGAZINES, ARTICLES)

Audiovisual Section (VIDEOS, FILMS, FILMSTRIPS, TRANSPARENCIES)

VIII. SPECIAL NOTES

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

July 6

SEMESTER 3 - AB INITIO

The First Solo

Ab Initio students are required to solo by LP 10. If they are not considered safe for solo at that point, they will be provided with one extra dual flight, at the end of which they must be considered safe for solo or be subject to involuntary withdrawal. Provisions have been made for a change in Instructor during this period of flight training, usually by LP 7. In this case the new Instructor will conduct an extra dual review flight with the student before proceeding with the rest of the Lesson Plans.

Pre-flight Test (LP43)

Before a student can attempt the Private Pilot Flight test (LP45), he/she must be recommended by an Instructor on LP43. As the Instructors are required to maintain a satisfactory flight test record, whether a student is recommended or not is entirely up to the discretion of the recommending Instructor. If students are not recommended and were put on probation as the result of their prog ride, they will be subject to involuntary withdrawal. If not on probation, they will be placed on probation, allowed an extra solo flight, and a second recommendation flight attempted. If not recommended at that point, they will be subject to involuntary withdrawal, otherwise they will be allowed to attempt the Private Pilot flight test.

Failure of the Private Pilot Flight Test

If students fail the Private Pilot Flight Test and were put on probation as the result of their prog ride or recommendation flight, they will be subject to involuntary withdrawal. If they were not put on probation, failed the flight test, and are eligible for a partial re-test as defined in the Private and Commercial Flight Test Guide (TP2655E), Part I, section 2 (b), they will be put on probation, provided with one extra solo flight, and another attempt at recommendation will be made. If recommended, successful completion of the partial flight test is required to continue onto semester 4. If not recommended, they will be subject to involuntary withdrawal.

Length of Probationary Period

If a student is placed on probation at any time during the third semester, they will remain on probation until the successful completion of semester 4.

SEMESTER 3 PROGRESS FLIGHT CHECK

A College Progress flight check will be assigned to students who have been assessed safe for first solo after LP 10, and safe for solo for LP 32: First Solo Cross Country. The Progress flight check will be assigned any time after the following flights have been completed and flight time accumulated:

- all sequential flights up to and including LP32: First Solo Cross Country (excluding those flights not given due to previous flight training)

Flight Time: Dual - 21.0 hrs
Solo - 17.0 hrs
Total - 38.0 hrs

After these flights are completed and hours accumulated, the student shall be given a College Progress flight check based on the Transport Canada flight test format, and judged by the standards and marking scale specified in the Private\Commercial Flight Test Guide (TP 2655E).

The flow chart for Semester 3 shall be used to determine the appropriate course of action based on the results of the flights listed on this flow chart. The college also reserves the right to assign a Progress Flight Check at any time during the semester if the student's progress is found to be below standard.

A Satisfactory grade will be assessed provided the following are met:

- no exercises marked as "0",
- two or less exercises marked as "1",
- the total number of "2" and "1" shall not exceed four

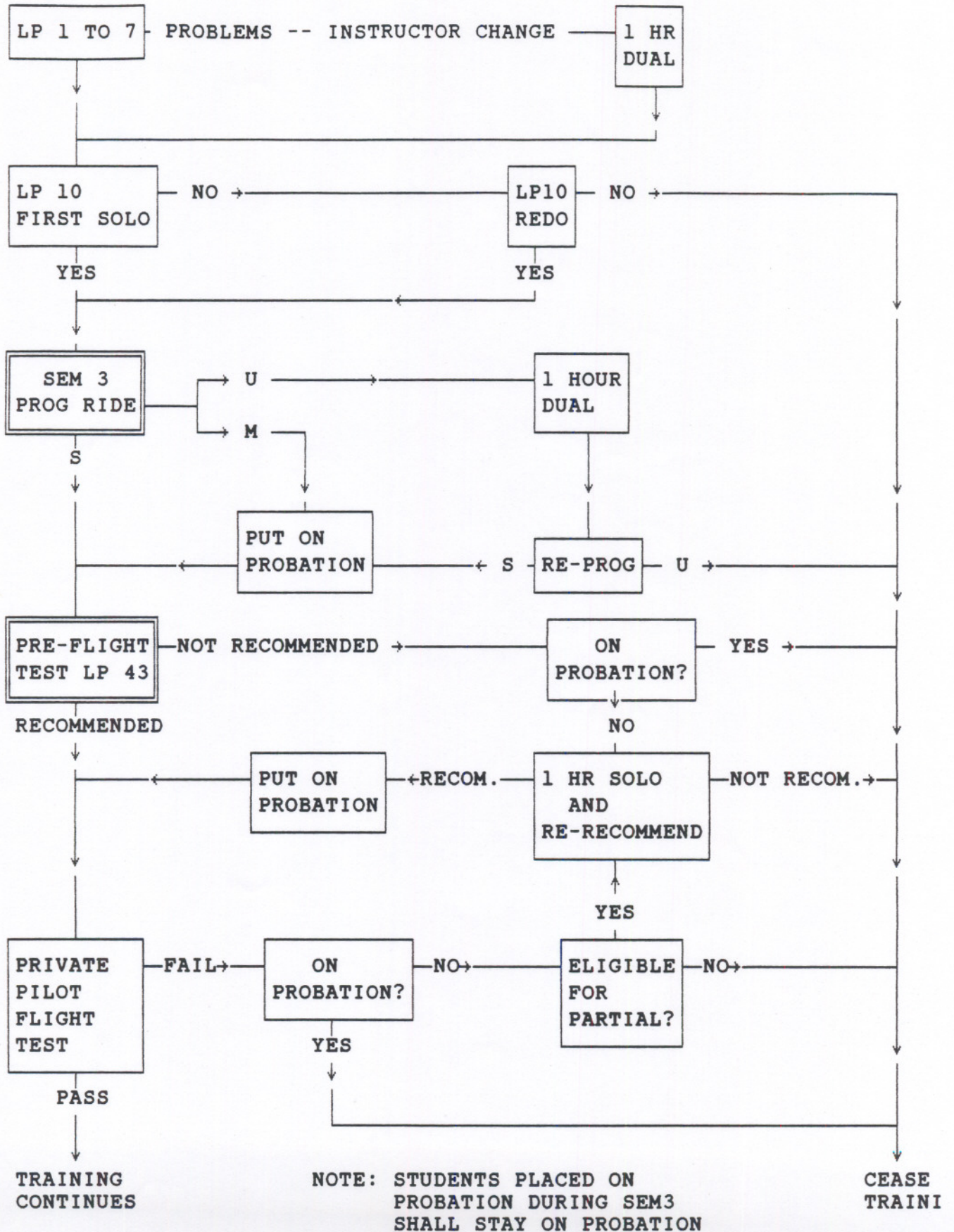
A student who does not meet the Satisfactory criteria above shall be assessed as Marginal, provided the following are met:

- no more than one exercise marked as "0",
- the total number of "1" and "0" shall not exceed four
- the total number of "2", "1", and "0" shall not exceed six

A student who does not meet the Satisfactory or Marginal Criteria above shall be assessed as Unsatisfactory.

If a Satisfactory grade is assessed, training will continue. If Unsatisfactory or Marginal, the student will be placed on probation. If Unsatisfactory, the student will be required to do a re-ride after one additional dual flight and a Satisfactory grade will be required for training to continue. If on probation, the student must be recommended for flight test on LP 43 after the first attempt for training to continue. Probation will continue until the successful completion of Semester 4.

SEMESTER 3 AB-INITIO FLOW CHART
 (for those students who do not have a private license)



THE SAULT COLLEGE AVIATION TECHNOLOGY
PILOT TRAINING CURRICULUM
*** SEMESTER 3 ***

A/C	LP #	EXERCISE	DAY		NIGHT		SIM	ACCUMULATIVE TOTALS						
			DUAL	PIC	DUAL	PIC		DUAL	PIC	NAV	INSTR	SIM		
C152	1	INTRO	0.5					0.5						
	2	1-5,9,17	1.0					1.5						
	3	3-9,10,17	1.0					2.5						
	4	9-12,17	1.0					3.5						
	5	11-18,23	1.0					4.5						
	6	9-18,23	1.0					5.5						
	7	16-18,22	1.0					6.5						
	8	15-18	1.0					7.5						
	9	16,17,18	1.0					8.5						
	10	16-19	0.5	0.3				9.0	0.3					
	11	16,17,18	0.3	0.5				9.3	0.8					
	12	16,17,18	0.3	1.0				9.6	1.8					
	13	16,17,18	0.5	1.0				10.1	2.8					
	14	16,17,18		1.0					3.8					
	15	15-18,22	1.0					11.1						
	16	15-18,22		1.0					4.8					
	17	12-18,22	1.0					12.1						
	18	12-18,22		1.0					5.8					
	19	12-18,22		1.0					6.8					
	20	10-18,23	1.0					13.1						
	21	10-18,23		1.0					7.8					
	22	11-18,23		1.0					8.8					
	23	9,14-23	1.0					14.1						
	24	9,14-23		1.0					9.8					
SIM	25T	24					1.0							1.0
C152	25	24	1.0					15.1				0.8		
	26	9,14-23		1.0					10.8					
	27	20,21,23	1.0					16.1						
	28	21,23		1.0					11.8					
SIM	29T	24					1.0							2.0
C152	29	24	1.0					17.1				1.6		
	30	21,23		1.0					12.8					
	31	23 X-CTY	3.9					21.0						
	32	23 X-CTY		4.2					17.0	4.2				
	*****	PROG RIDE	(1.5)		(time not included in grand totals)									
	33	15-23		1.0					18.0					
	34	REVIEW	1.0					22.0						
	35	10-18,23		1.0					19.0					
SIM	36T	24					1.0							3.0
C152	36	24	1.0					23.0				2.4		
	37	9,14-21		1.0					20.0					
	38	23 DIV		1.0					21.0	5.2				
	39	C.H. REV	1.0					24.0						
	40	REVIEW		1.0					22.0					
SIM	41T	24					1.0							4.0
C152	41	24	1.0					25.0				3.2		
	42	REVIEW		1.0					23.0					
	43	PRE FLT	1.5					26.5						
	44	REVIEW		1.0					24.0					
	45	PRIVATE FLT TEST	1.5					28.0						
SEMESTER 3 TOTALS:			28.0	24.0			4.0							

ACCUMULATED TOTALS: 28.0 24.0 5.2 3.2 4.0

SEMESTER 3 PROGRESS FLIGHT CHECK PRIVATE PILOTS

A College Progress flight check will be assigned any time after the following flights have been completed and flight time accumulated:

- all sequential flights up to and including LP 5: Solo Cross Country.

Flight time: Dual - 8.5 hrs
 Solo - 13.5 hrs
 Total - 22.0 hrs

After these flights are completed and hours accumulated, the student shall be given a College Progress flight check based on the Transport Canada flight test format, and judged by the standards and marking scale specified in the Private\Commercial Flight Test Guide (TP 2655E).

The flow chart for Semester 3 shall be used to determine the appropriate course of action based on the results of the flights listed on this flow chart. The college also reserves the right to assign a Progress Flight Check at any time during the semester if the student's progress is found to be below standard.

A Satisfactory grade will be assessed provided the following are met:

- no exercises marked as "0"
- two or less exercises marked as "1"
- the total number of "2" and "1" shall not exceed four

A Student who does not meet the Satisfactory criteria above shall be assessed as Marginal, provided the following are met:

- no exercises marked as "0"
- no more than three exercises marked as "1"
- the total number of "2" and "1" shall not exceed six
- an overall score of 73 or greater

A student who does not meet the Satisfactory or Marginal criteria above shall be assessed as Unsatisfactory

If a Satisfactory grade is assessed, training will continue. If Unsatisfactory or Marginal, the student will be placed on probation. If Marginal, training will continue up to LP X and another progress flight check assigned. A Satisfactory grade will be required for training to continue. If Unsatisfactory, the student will be required to do a re-ride after one additional dual flight and a Satisfactory grade will be required for training to continue. Probation will continue until the successful completion of Semester 4.

THE SAULT COLLEGE AVIATION TECHNOLOGY
PILOT TRAINING CURRICULUM

*** SEMESTER 3 - PRIVATE PILOTS ***

A/C	LP #	EXERCISE	DAY		NIGHT		SIM	ACUMMULATIVE TOTALS						
			DUAL	PIC	DUAL	PIC		DUAL	PIC	NAV	INSTR	SIM		
C152	A	15,16-18	1.0					1.0						
C152	B	12,13,23	1.0					2.0						
C152	C	16-18	0.5	1.0				2.5	1.0					
C152	D	16-18		1.0					2.0					
C152	E	15-18,22	1.0					3.5						
C152	F	15-18,22		1.0					3.0					
C152	G	12,13,22		1.0					4.0					
C152	H	12,13,23		1.0					5.0					
C152	I	10,11,23	1.0					4.5						
C152	J	10,11,23		1.0					6.0					
C152	K	12,13,23		1.0					7.0					
C152	L	9,14,22	1.0					5.5						
C152	M	9,14,22		1.0					8.0					
C152	N	9,14,23		1.0					9.0					
C152	O	20,21,23	1.0					6.5						
C152	P	16-18,21		1.0					10.0					
C152	Q	16-18,21		1.0					11.0					
C152	R	23 X-CTY	2.0					8.5						
C152	S	23 X-CTY		2.5					13.5	2.5				
*****PROG RIDE (1.5)(time not included in grand totals)														
SIM	T	24					1.0						1.0	
C152	T	24	1.0					9.5			0.8			
SI	U	24					1.0						2.0	
C152	U	24	1.0					10.5			1.6			
C152	V	C.H.R.	1.0					11.5						
SIM	W	24					1.0						3.0	
C152	W	24	1.0					12.5			2.4			
SIM	X	24					1.0						4.0	
C152	X	24	1.0					13.5			3.2			
SEMESTER 3 TOTALS:			13.5	13.5			4.0							
ACCUMULATED TOTALS:								13.5	13.5	2.5	3.2	4.0		