

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY
SAULT STE. MARIE, ONTARIO**



Sault College

COURSE OUTLINE

COURSE TITLE: Instructional Techniques
CODE NO. : AVT370-2
PROGRAM: Aviation Technology (Flight)
AUTHOR: Louis St Pierre
DATE: June, 2015
SEMESTER: Seven
PREVIOUS OUTLINE DATED: June 2014

APPROVED:

Greg Mapp

AVIATION OPERATIONS MANAGER
July 14th 2015
DATE

TOTAL CREDITS:

2

PREREQUISITE(S):

AVF 245, AVT 257, AVT 361, AVT 363, AVT 364, AVT 366, AVT 369, AFT 250 (Note: in order to credit this course toward the ground training requirement for the Class 4 Flight Instructor Rating, the student shall have successfully completed the written examination and flight test for the Commercial Pilot Licence – Aeroplane)

HOUR/WEEK:

2

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I. COURSE DESCRIPTION:

A study of the principles of learning and techniques of instruction and a review of theory of flight and general aviation knowledge, leading to the Transport Canada Flight Instructor Endorsement Examination. In addition, students will participate in classroom exercises to gain experience in giving preparatory instruction and pre/post flight briefings.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Prepare and give Lesson Plans on the preparatory instruction for the air exercises using acceptable instructional techniques.

Potential Elements of the Performance:

- Have a clear understanding of the technical content of the air exercise.
- Determine the appropriate extent to which the air exercise should be taught for the level of training.
- Create a lesson plan in the recommended format
- Teach the lesson plan using as a practical application of the basic principles of learning and techniques of instruction, as per the flight instructor's guide.

2. Assess student performance in relation to the appropriate Transport Canada guidelines.

Potential Elements of the Performance:

- Have a clear understanding of the minimum requirements for each licence/rating.
- Have a clear understanding of the flight test standards for each licence/rating.
- Use the appropriate flight test guide to determine the appropriate assessment for the student performance.

3. Meet the knowledge requirements for the Class IV Flight Instructor Rating. The student will be recommended to write the TC Class IV Flight Instructor Written Exam. (Pending meeting the experience requirements)

Potential Elements of the Performance:

- Knowledge of the procedures for planning and presenting preparatory ground instruction, pre-flight briefings, in-flight instruction, and post-flight debriefings
- Review of theory of flight required to teach the air exercises
- Knowledge of aircraft flight manuals and aircraft operating limits

- Knowledge of pilot decision-making concepts
- Know how to use the *Transport Canada Flight Instructor Guide, Flight Training Manual, Canadian Aviation Regulations, Part IV* and the *Flight Test Standards, Private and Commercial Pilot Licences - Aeroplane Category*

III. TOPICS:

1. The use of the *Transport Canada Flight Instructor Guide, Flight Training Manual, Canadian Aviation Regulations, Part IV* and the *Flight Test Standards, Private and Commercial Pilot Licences - Aeroplane Category*.
2. Practical application of the basic principles of learning and techniques of instruction
3. Preparation and use of lesson plans and the procedures for planning and presenting preparatory ground instruction, pre-flight briefings, in-flight instruction, and post-flight debriefings
4. Presentation of pilot decision-making concepts
5. Presentation of lesson plans including a review of the theory of flight required to teach the air exercises, aircraft flight manuals and aircraft operating limits and the air exercises themselves.

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

1. Study and Reference Guide, Private Pilot Licence - Aeroplane TP12880E
2. Study and Reference Guide, Commercial Pilot Licence – Aeroplane TP12881E
3. Flight Test Guide, Private Pilot Licence - Aeroplane, TP13723E
4. Flight Test Guide, Commercial Pilot Licence – Aeroplane, TP13462E
5. Study and Reference Guide, Flight Instructor Rating, Aeroplane and Helicopter, TP2810E
6. Flight Test Guide, Flight Instructor Rating, Aeroplane, TP5537E
7. Transport Canada Flight Instructor Guide, TP975E
8. Aeronautical Information Manual (AIM) Canada
9. From the Ground Up - A. F. MacDonald
10. Flying Training Manual - Transport Canada
11. Canada Flight Supplement - GPH 205
12. Pilots Operating Handbook - Zlin Z242L (Ground school copy)

V. EVALUATION PROCESS/GRADING SYSTEM:

The student will be assessed by a combination of attendance, quizzes, assignments and a final exam. Weighting of each will be as follows:

The student will be expected to prepare and hand in a lesson plan on an assigned air exercise. This lesson plan will be marked for completeness and conformity to the recommended lesson plan layout. This will be worth 10% of the overall mark.

The student will be expected to give a lesson on the assigned air exercise under a simulated circumstance. ie: Preparatory instruction to one or more students within the class. This lesson will be marked by the other students as per the Flight Test Guide. This will be worth 10% of the overall mark.

The student will be expected to mark each other student in the class who is giving an assigned lesson. The marking sheet will be assessed by the instructor for conformity to the Flight Test Guide. This will be worth 10% of the overall mark.

20% for quizzes

50% for the final exam

- A minimum mark of 70% (B) is required to pass the course.
- Unexcused absences will result in 2% deduction of the final mark for each occurrence, arriving for class late will result in a 1% deduction of the final mark for each occurrence, and violations of the dress code will result in a 1% deduction of the final mark for each occurrence. Refer to the SOP GEN 1.3 for dress code policies and SOP GEN 1.6.7 for policy regarding absence from classes
- Quizzes will be given without prior notice.
- Students may request a deferment of a test for compassionate reasons. Compassionate Grounds for deferment will include but not be limited to death of an immediate family member, personal illness, or recent diagnosis of a serious illness of a family member. **Make-ups will not be permitted after the fact for compassionate reasons.**
- Although attitude, co-operation, etc., are not graded, students may be terminated based on their performance in this area (see section VI). These attributes are also considered in the selection of the Air Canada Award and other scholarships.
- Dates of tests will be announced at least 1 week in advance.
- A classroom code of conduct can be found in the SOP General section, and will be adhered to.
- If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.

The following semester grades will be assigned to students in this course:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 -100%	4.00
A	80 - 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. **SPECIAL NOTES:**

Attitude and Conduct

Attitude plays an important role in your ability to exercise good judgment. Although attitude is not being graded, it affects your ability to learn as well as your safety as a student and future as a professional pilot. Students who display a strong tendency towards any of the five hazardous attitudes pose a grave risk to themselves and others. For this reason, students exhibiting one or several hazardous attitudes will be counselled and if necessary, will be put on a behavioural contract. If this is ineffective in modifying unacceptable behaviour, then the student will be withdrawn from the program.

The five hazardous attitudes are identified as Anti-authority, Impulsivity, Invulnerability, Machismo, and Resignation. These hazardous attitudes are described in "Human Factors for Aviation – Basic Handbook" on pages 151 and 152.

Attendance:

Attendance is mandatory in this course. Please read the bullet on "Unexcused Absences" under **Section V: EVALUATION**

PROCESS/GRADING SYSTEM

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.

NOTE: In accordance with the Sault College Student Code of Conduct Article 2, Section 22, all students are requested to turn OFF their cellular phones (Including Blackberry and iPhone devices) prior to class commencing. Failure to do so may result in the student being dismissed from the lesson. Texting, e-mailing and social networking are all distractions that are not commensurate with the learning of new material or participation in class discussions. Exceptions may be granted with the professor's consent.