



# COURSE OUTLINE

## AVT370

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<b>Course Code: Title</b>	AVT370: INSTRUCTIONAL TECHNIQUES
<b>Program Number: Name</b>	4061: AVIATION TECHNOLOGY
<b>Department:</b>	AVIATION TECHNOLOGY
<b>Semester/Term:</b>	17F
<b>Course Description:</b>	A study of the principles of leaning 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.
<b>Total Credits:</b>	2
<b>Hours/Week:</b>	2
<b>Total Hours:</b>	30
<b>Prerequisites:</b>	AFT240, AVT361, AVT363, AVT364, AVT366, AVT369
<b>Essential Employability Skills (EES):</b>	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	Passing Grade: 70%, B
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	The student will be assessed by a combination of attendance and department, 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.

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Final Exam	50%
In-Class Teaching Assignment	10%
Lesson Plan Submission	10%
Marking Sheet Submission	10%
Quizzes	20%

**Books and Required Resources:**

Study and Reference Guide, Private Pilot Licence - Aeroplane TP12880E  
Available for download from Transport Canada's website

Study and Reference Guide, Commercial Pilot Licence – Aeroplane TP12881E  
Available for download from Transport Canada's website

Flight Test Guide, Private Pilot Licence - Aeroplane, TP13723E  
Available for download from Transport Canada's website

Flight Test Guide, Commercial Pilot Licence – Aeroplane, TP13462E  
Available for download from Transport Canada's website

Study and Reference Guide, Flight Instructor Rating, Aeroplane and Helicopter, TP2810E  
Available for download from Transport Canada's website

Flight Test Guide, Flight Instructor Rating, Aeroplane, TP5537E  
Available for download from Transport Canada's website

Transport Canada Flight Instructor Guide, TP975E

Available for download from Transport Canada's website

From the Ground Up by A. F. MacDonald  
Publisher: Aviation Publishers Co. Limited

Flying Training Manual  
Publisher: Transport Canada  
No Author Indicated

Canada Flight Supplement  
Available by subscription from Nav Canada

Pilots Operating Handbook - Zlin Z242L (Ground school copy)  
Printed by book store

## **Course Outcomes and Learning Objectives:**

### **Course Outcome 1.**

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

#### **Learning Objectives 1.**

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.

### **Course Outcome 2.**

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

#### **Learning Objectives 2.**

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.

### **Course Outcome 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)

#### **Learning Objectives 3.**

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

**Date:** Thursday, February 8, 2018

Please refer to the course outline addendum on the Learning Management System for further information.