COURSE OUTLINE: ATQ121 - AIR OPERATIONS

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Course Code: Title	ATQ121: AIR OPERATIONS
Program Number: Name	4161: AVIATION TECHNIQUES
Department:	CONTROL - SAULT
Semesters/Terms:	22W
Course Description:	Air Operations is designed to provide an overview of Canadian Aviation Regulations, air traffic procedures, aircraft operations, radio aids, and flight planning. This course is recommended for students who are considering the Aviation Technology-Flight program in the future. This course, combined with navigation and weather fundamentals, aviation electronics, and aviation motive power, consists of the common body of knowledge required to pass both of Transport Canada`s Flight Dispatcher`s examinations
Total Credits:	2
Hours/Week:	2
Total Hours:	30
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**4161 - AVIATION TECHNIQUES** VLO 2 Perform basic techniques and standard practices used in aviation in order to increase skill level to enter next phase of learning and practice about aviation flight and industry. VLO 5 Apply oral and written technical communication skills to succeed in college level aviation programs. VLO 8 Develop effective learning and study skills to support success in the current program of study and advancement into subsequent, higher level, studies in Aviation.
Essential Employability Skills (EES) addressed in this course:	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.

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	EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%, A minimum program GPA of 2.0 or higher where program specific standards exist is required fo graduation.
Other Course Evaluation & Assessment Requirements:	Attendance and participation bonus up to 5% will be granted.
Books and Required Resources:	Canadian Aviation Regulations Publisher: Transport Canada https://www.tc.gc.ca/en/transport-canada/corporate/acts-regulations/regulations/sor-96-433.htm Aeronautical Information MAnual Publisher: Transport Canada https://www.tc.gc.ca/en/services/aviation/publications/tc-aim.html Human Factors for Aviation - Basic Handbook (TP 12863E) Publisher: Transport Canada ISBN: 0660166550 From the Ground Up, 29th Edition Publisher: Aviation Publishers Edition: 29 ISBN: 0973003634

Course Outcomes and Learning Objectives:

Course Outcome 1	**Learning Objectives for Course Outcome 1**
Air law and procedures	Understanding of the material defined in Transport Canada document # TP12513E
Course Outcome 2	**Learning Objectives for Course Outcome 2**
Airframes, propellers, and aircraft systems	Understanding of the material defined in Transport Canada document # TP12513E.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
Aviation instruments	Understanding of the material defined in Transport Canada document # TP12513E
Course Outcome 4	**Learning Objectives for Course Outcome 4**
Radio communications and aids to navigation	Understanding of the material defined in Transport Canada document # TP12513E
Course Outcome 5	**Learning Objectives for Course Outcome 5**
Flight operations	Understanding of the material defined in Transport Canada document # TP12513E
Course Outcome 6	**Learning Objectives for Course Outcome 6**
Theory of flight	Understanding of the material defined in Transport Canada document # TP12513E
Course Outcome 7	**Learning Objectives for Course Outcome 7**

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	Human Factors	Understanding of the material defined in Transport Canada document # TP12513E

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Exam	40%
Independent Study	10%
Midterm	30%
Quizzes	20%

Date: August 13, 2021

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

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