

EES 3 Execute mathematical operations accurately.

EES 4	Apply a systematic approach to solve problems.
LL04	

- 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 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: 70%, B

Other Course Evaluation & The student will be assessed by a combination of attendance and deportment, guizzes, tests and a final exam. Weighting of each will be as follows: 20% for guizzes, 30% for all tests prior Assessment Requirements: to the final exam and 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

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	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. A classroom code of conduct can be found in the SOP General section, and will be adhered to. Attendance is mandatory for all Aviation classes unless approval is granted in advance. In the case of illness, a phone call, voice mail or e-mail message is expected. If a student expects to be late or will be delayed for any reason, every attempt should be made to contact the professor, or leave a message on voice mail or e-mail. 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. 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.					
Books and Required Resources:	Canadian Aviation Regulations Available for download from the Internet - Link on LMS					
	Sault College Maintenance Policy and Control Manual					
	Sault College Maintenance Schedules Zlin Z-242-L and Piper PA44					
	From the Ground Up Publisher: Aviation Publishers Co. Limited No author indicated					
	Flight Training Manual No author indicated					
	Sault College Ground School Manual Zlin Z-242-L Printed by Sault College book store					
	Piper PA44 Seminole Information Manual From AVT 366					
Course Outcomes and	Course Outcome 1	Learning Objectives for Course Outcome 1				
Learning Objectives:	Perform the duties of a Person Responsible for Maintenance of an air operator or flight training unit.	Knowledge of general maintenance requirements prescribed by CARs. Knowledge of the additional requirements for an air operator or FTU. Knowledge of a typical Maintenance Control Manual and its related sub manuals (i.e. Sault College MPCM) Familiarity with the format of typical maintenance publications such as Airworthiness Directives, Type Certificates, Manufacturers Service Bulletins etc.				
	Course Outcome 2	Learning Objectives for Course Outcome 2				
	Describe the layout and operation of typical aviation powerplants and their systems	Knowledge of piston engine layout, operational cycles etc. Knowledge of turbine theory, layout, gas flow etc. Knowledge of propeller terminology, types, control systems, operation etc.				
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				Knowledge of fuel, lubrication, induction, exhaust, ignition, starting, fire, monitoring and control systems. Ability to properly operate engines efficiently while optimizing their reliability and longevity. Ability to detect and troubleshoot common engine problems. Rationalization of the checklists and procedures associated with aircraft engines.		
	Course Outcome 3		Learning Objectives for Course Outcome 3			
	Describe the various types and styles of airframe construction, the properties of the materials used and the systems associated with aircraft such as electrical, pneumatic, vacuum, hydraulic, anti/de-ice, heating/ventilating/cooling and pressurization		Knowledge of various construction materials and their properties. Knowledge of the various airframe styles and types of construction Understanding of stress and strain and the limitations imposed on airframes. Understanding of corrosion concerns Knowledge of the various systems. Ability to operate the systems. Ability to detect faults and common airframe defects and to troubleshoot the systems. Ability to properly operate airframes efficiently while optimizing their reliability and longevity. Rationalization of the checklists and procedures associated with aircraft systems.			
Evaluation Process and	Evaluation Type	Evaluatio	n Weight	Course Outcome Assessed		
Grading System:	Final Exam	50%				
	Quizzes	20%				
	Tests	30%				
Date:	August 27, 2018					
	Please refer to the	course out	line adder	ndum on the Learning Management System for further		

information.

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