



COURSE OUTLINE

COURSE: **Avionics Maintenance**

PROGRAM: 280.C0 Aircraft Maintenance Technology

DISCIPLINE: 280 Aeronautics

WEIGHTING: Theory: 2 Practical Work: 2 Personal Study : 2

TEACHER(s)	Office	☎ Extension	✉ email
Rădulescu, Andrei	A-187	4648	andrei.radulescu@cegepmontpetit.ca

OFFICE HOURS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Morning					
Afternoon					

Coordinator(s)	Office	☎ Extension	✉ Email or Website
Brodeur-Séguin, Judith	A-192	4103	j.segin-brodeur@cegepmontpetit.ca
Laurin, Nicholas	A-192	4665	Nicholas.laurin@college-em.qc.ca

CONTEXT OF THIS COURSE IN THE PROGRAM

This course is offered in the fourth term of the program. It is assumed that students who enrol in the course have passed the course in their preceding term, 280-3D4 DC Avionics. Students who do not meet this condition may still enrol in the course, the Avionics Department believes that these students will find it more difficult to pass the course.

By the end of this course, students will have developed:

- the ability to analyze circuits and electrical systems, generation circuits, distribution control of single and twin engine aircraft and various electric and electronic systems found in aeronautics
- the ability to apply methods and procedures to solve simple problems commonly encountered in aircraft electrical systems.

Students must keep this course outline for the duration of their studies, as it will be useful for the comprehensive assessment at the end of the program.

Transports Canada: This course outline meets the requirements of Training Organisation Certification Manual (MCF) of Transport Canada. The Department applies Transport Canada standard which allows a maximum absence of 5% for the course (theory and laboratory). The department compiles absences of all students enrolled in Aircraft Maintenance (280.03) and Avionics (280.04) according to Transport Canada requirements. The application of Transport Canada policies regarding absences is available on the college website and in the student agenda under the heading « Privilèges accordés par Transports Canada ».

COMPETENCIES OF THE EXIT PROFILE (STUDENT SKILL PROFILES)

Student will be able to perform repairs, maintenance and troubleshooting on simple electrical systems on aircraft.

MINISTRY OBJECTIVE(S) AND COMPETENCIES

025T To maintain direct-current circuits on an aircraft.

(training duration: 100 course periods)

Distribution of the 025T competence in the program:

3 rd term	280-3D4-EM: DC Avionics	55 periods out of 100
4 th term	280-4A4-EM: AC Avionics	30 periods out of 100
▶ 6 th term	280-6A3-EM: Avionics Maintenance	15 periods out of 100
Total:		100 periods

0263 To check the operation of simple alternating-current currents on an aircraft.

(training duration: 70 course periods)

Distribution of the 0263 competence in the program:

3 rd term	280-3D4-EM: DC Avionics	5 periods out of 70
4 th term	280-4A4-EM: AC Avionics	30 periods out of 70
4 th term	280-605-EM: Aircraft Instrumentation	5 periods out of 70
▶ 6 th term	280-6A3-EM: Avionics Maintenance	30 periods out of 70
Total:		70 periods

This course outline is the translation of "Plan de cours – 280-404-EM – Systèmes avioniques à courant alternatif". In case of any contradictions, the French version, which is the original, prevails.

TERMINAL OBJECTIVE OF THE COURSE (FINAL COURSE OBJECTIVE)

At the end of this course, the student will be able to verify the operation in DC of passive components, verify the DC generation and distribution systems on twin engine aircraft, perform a DC load analysis, verify simple AC circuits containing passive components, verify the AC generation and distribution, perform an AC load analysis..

TEACHING AND LEARNING STRATEGIES

Theory:

The theoretical course will be delivered in a lecture format with multimedia support when possible and appropriate.

Practical Work:

Acquisition of the theoretical knowledge will be facilitated by a series of experiments divided into 15 laboratory sessions.

COURSE PLAN

025T Maintain direct-current circuits on an aircraft.

Element of the Ministry Objective	Learning Objectives
#2 Inspect the direct current operation of passive components	1. Describe the characteristics of a capacitor.
	2. Analyze circuits formed by a DC voltage source, a resistor and capacitors.
	3. Describe the basic characteristics of a coil.
	4. Analyze a circuit formed by a DC voltage source, a resistor and coils
	5. Interpret blueprints and diagrams that include semi-conductor elements.
#3. Inspect the direct-current electrical power supply and distribution system of an aircraft.	1. Describe the general theory of magnetization; make a connection between magnetic permeability and temporary and permanent magnets; define residual magnetism
	2. Describe the general theory of electromagnetism and analyze the principles.
	3. Check the operation of a DC generator
	4. Check the operation of a DC electric motor
	5. Check a DC system (alternator paralleling controlled by a single control box) of a pistons twin-engine aircraft.
	6. Check a DC system (with alternator paralleling each controlled by a regulator in continuous operation) of a pistons twin-engine aircraft
	7. Check a DC generation system of a turbine twin-engine aircraft
	8. Check the DC distribution system in a pistons twin-engine aircraft and a turbine twin-engine aircraft while respecting safety procedures
	9. Diagnose the malfunctions of the DC power and distribution systems of a pistons twin-engine aircraft and a turbine twin-engine aircraft
# 7. Perform the Electrical-Load Analysis of a direct-current circuit in an aircraft.	1. Identify relevant information for Electrical-Load Analysis for a twin-engine : <ul style="list-style-type: none"> - AC 43 13 - FAR 23 - JAR 23 - Manufacturer's Manuals
	2. Identify the regulations concerning requirements to create a new Electrical-Load Analysis

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0263 Inspect simple alternating-current circuits on an aircraft.

Element of the Ministerial Objective	Learning Objective
#1. Inspect AC circuits on an aircraft.	1. Identify a sinusoidal wave form and its characteristics
	2. Use Ohm's Law and Kirchhoff's Laws to calculate the parameters of a resistive circuit powered by an alternative source.
	3. Define the characteristics of AC-powered passive components: coils, capacitors, etc.
	4. Analyze AC-powered circuits containing resistors, capacitors and coils.
	5. Check a faulty circuit using a Multimeter.
#2. Inspect passive components AC operation	1. Use alternating current to check various passive components to determine their condition.
#3. Inspect AC electrical generation and distribution on an aircraft.	1. Check the operation of a transformer.
	2. Check the operation of an AC generator
	3. Check the operation of an AC electric motor
	4. Check operation of special electrical machines.
	5. Check AC generation system of an aircraft whose primary generation is DC.
	6. Check the AC generation system on aircraft whose primary generation is AC
#8. Make an Electric load analysis of an aircraft.	1. Identify the information relevant to the analysis of AC electrical charge generation for aircraft with primary DC generation <ul style="list-style-type: none"> - FAR 23 - AC 43.13 - JAR 23 - Manufacturer's Manuals
	2. Identify information relevant to the analysis of AC electrical load generation for aircraft with primary AC generation <ul style="list-style-type: none"> - FAR 25 - AC 43.13 - JAR 25 - Manufacturer's manuals
	3. Identify regulations that require a mandatory new electrical load analysis

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Term Calendar

Theory:

Periods	Content	Personal Study	Objectives
Weeks 1 and 2	<p>4 per.</p> <p>Operation of control circuits for DC electrical generation and distribution for twin-engine piston aircrafts</p> <ul style="list-style-type: none"> ■ Battery circuit and external power ■ Starter circuit ■ Ignition circuits ■ Control circuits for generators and DC output alternators ■ Types of monitoring ■ Generators and DC output alternators Paralleling ■ Electrical Load Analysis <p>Use the diagrams of the Piper Aztek, of the Cessna 337 and of the Aerocommander as examples of applications</p>	<p>Study:</p> <ul style="list-style-type: none"> ∞ Chapters in the corresponding reference manual and course notes ∞ Circuit analysis 	#3.5 and #3.6, #3.8 and #3.9, #7 (025T), #8.1 and #8.3 (0263)
Week 3	<p>2 per</p> <p>Semiconductor circuits</p> <ul style="list-style-type: none"> ■ Presentation of Course Outline ■ Zener Diode and bi directional Zener diode ■ Bipolar transistors ■ Transistor – switching operation ■ Applications : DIM circuits, dome light (Bell206) ; H mount of the trim control (Hughes300) 	<p>Study:</p> <ul style="list-style-type: none"> ∞ Chapters in the corresponding reference manual and course notes ∞ Circuit analysis 	#2.5 (025T)
Weeks 4 and 5	<p>4 per.</p> <p>Operation of control circuits for DC electrical generation and distribution for twin-engine turbine aircrafts</p> <ul style="list-style-type: none"> ■ Battery circuit and external power ■ Starter circuit ■ Ignition circuits ■ Control circuit for generators and DC output alternators ■ Types of monitoring ■ Generators and DC output alternators Paralleling ■ Electrical Load Analysis <p>Use the diagrams of the King Air and of the BK 117 as examples of applications</p>	<p>Study:</p> <ul style="list-style-type: none"> ∞ Chapters in the corresponding reference manual and course notes <p>Homework :</p> <ul style="list-style-type: none"> ∞ Questions on the operation of circuits 	#3.7 to #3.9, #7 (025T), #8.1 and #8.3 (0263)
Week 6	<p>2 per</p> <p>Capacitors and coils in a DC circuit</p> <ul style="list-style-type: none"> ■ Description of the physical characteristics that influence the value of the capacity of a capacitor ■ Charge and discharge phenomena description ■ Capacitors association ■ Application - fuel gauge capacitive circuits ■ Description of the physical characteristics that influence the value of the inductance of a coil ■ Description of the field produced by a single coil ■ Coils association 	<p>Study:</p> <ul style="list-style-type: none"> ∞ Chapters in the corresponding reference manual and course notes 	#2.1 to #2.4 (025T)
Week. 7	<p>2 per</p> <p>Test 1 (20 points) Semi-conductors; electrical circuits of twin-engine piston and turbine aircrafts; capacitors and coils in DC circuits</p>		#2, #3.5 to #3.9, #7 (025T)

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Periods		Content	Personal Study	Objectives	
Week 8	2 per.	Sinusoidal wave (sine wave) Application of Ohm's Law on a resistive AC circuit	<ul style="list-style-type: none"> ■ Characteristics of the sine wave (period, frequency, special values, pulse, phase angle, phase shift) ■ AC voltages and frequencies used in aeronautics ■ Simple circuits with a single loop 	Study: ∞ Chapters in the corresponding reference manual and course notes Homework: ∞ Problems selected by the teacher	#1.1 and #1.2 (0263)
Week 9	2 per.	Transformers and rectifiers	<ul style="list-style-type: none"> ■ The ideal transformer ■ Transformer ratio ■ Center-tap transformer ■ Multi-tap transformer ■ Autotransformer ■ Magneto ■ Diode rectifier circuits Applications : turbine ignition circuit; Ignition with magneto.	Study: ∞ Chapters in the corresponding reference manual and course notes Homework: ∞ Problems selected by the teacher Circuit analysis	#3.1 (0263)
Week 10	2 per.	AC electrical machines	<ul style="list-style-type: none"> ■ Three-phase systems in Y or delta ■ Three-phase rectifier ■ The TRU (transformer-rectifier unit) ■ Rotary inverter ■ Three-phase induction motor 	Study: ∞ Chapters in the corresponding reference manual and course notes	#3.2 to #3.5 (0263)
Week 11	2 per.	Coils and capacitors in AC-circuits	<ul style="list-style-type: none"> ■ Capacitive reactance ■ Voltage current phase shift through a capacitor ■ Inductive reactance ■ Voltage current phase shift in an inductor ■ Impedance triangle ■ Active, reactive and apparent power 	Study: ∞ Chapters in the corresponding reference manual and course notes Homework: ∞ Problems selected by the teacher	#1.3 and #1.4 (0263)
Weeks 12 to 14	6 per.	AC generation and utilities systems	<ul style="list-style-type: none"> ■ Primary AC generation ■ Aircraft power supplied by Ground Power Unit (GPU) or Auxiliary Power Unit (APU) ■ Paralleling alternators, load balancing ■ Operation in case of loss of an alternator ■ GCU control circuits ■ Generation system monitoring Using the Challenger 601 documentation study the brushless alternators. Use documentation of the AC generation system for the Boeing 747 to study paralleling generators. Study the AC generation system of the Challenger 601. <ul style="list-style-type: none"> ■ Examples of AC utilities (hydraulic pump drives, flap motor of the Challenger 601). 	Study: ∞ Chapters in the corresponding reference manual and course notes Homework : ∞ Questions on the operation of circuits	#3.6 (025T), #8.2 and #8.3 (0263)
Week 15	2 per.	Final Comprehensive Evaluation (30 points) Semi-conductors; electrical circuits for twin-engine piston and turbine aircrafts; DC capacitors and coils; sinusoidal waves; AC capacitors and coils; transformers and rectifiers; AC electric machines , AC generation systems		#2, #3.5 to #3.9, #7 (025T) #1.1 to #1.4, AC#3 and #8 (0263)	

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Practical Work:

Periods		Content		Personal Study	Objectives
Week 1	2per.	Introduction to the course Simulator for twin-engine electrical generation system.	<ul style="list-style-type: none"> • Course Outline • Safety concepts • Introduction to diagrams reading • Introduction to the simulator for twin-engine electrical generation system (operator mode) • 	Laboratory Preparation : Define the nominal theoretical values of voltages (battery, external power, and alternator) in the circuits.	#3.5, #3.6, #3.8 (025T)
Week 2	2per.	Simulator for twin-engine electrical generation system. Troubleshooting methods review	<ul style="list-style-type: none"> • Identifying system components • Using the DC electrical system simulator for twin-engine piston aircraft • Measuring nominal values of the voltages for components in normal operation (marking the measured values on the diagram and in the troubleshooting log) • Analysing obtained values • Adjustment of voltage regulators on simulator – separate operation 		
Weeks 3 to 5	6 per.	Troubleshooting a DC generation system of a twin-engine piston aircraft	<ul style="list-style-type: none"> • Using the DC electrical system simulator of a twin-engine piston aircraft • Adjustment of voltage regulators on simulator – parallel operation • Detecting abnormal operation and identifying defective components by measuring voltage and comparing them with the nominal values (regulators separate and parallel operation) 		#3.9 (025T)
Weeks 6 and 7	4 per.	<p>A. Test : Individual exam on troubleshooting using the simulator. 2 periods per student. The power failures are open circuit and short-circuit types. Each student shall have a failure on the generation circuit of a piston twin-engine and a failure in the distribution system (regulators parallel operation).</p> <p>B. Inspecting semi-conductors: Individually 2 periods.</p> <ul style="list-style-type: none"> • Inspecting transistor types TO-3, TO-220 and TO-92 with the multimeter • Checking the family of 1N4000 diodes • Checking a diode bridge • Checking diodes of a DC output alternator 			#3.5, #3.6, #3.8 and #3.9 (025T) #2.5 (025T)
Week 8	2 per.	Static inspection of an alternator.	Static inspection of the alternator parts according to the manufacturer's standards.	Laboratory Report : Report measurements taken. Comment on the results.	#3.5, #3.6 and #3.8 (025T)
Week 9	2 per	Introduction to measuring AC voltage	<ul style="list-style-type: none"> • Demonstration by the teacher of a sine and the phase shift between two sines. • RMS Voltage measurement (AC 1phase 60Hz) with a digital voltmeter. (on LabVolt) • AC three-phase : Measurement of the voltage between lines, the phase voltage with a digital voltmeter on Labvolt and a transformer 	Questionnaire on AC following the demonstration	#1.1, #1.5, #2.1 (0263)
Week 10	2 per	King Air AC distribution and inverters inspection	<ul style="list-style-type: none"> • Inspection of the inverters on an aircraft, King Air, Learjet 	Questionnaire on inspection procedures. Lab report on troubleshooting	#3.4, #3.5, #3.6 (0263)

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Periods		Content	Personal Study	Objectives	
Week 11	2 per	Power-up of an aircraft with AC primary generation system Components visualisation (Challenger 601)	<ul style="list-style-type: none"> • Planning the power-up of the aircraft using the AC ground power unit • Planning the power-up of the aircraft using the DC ground power unit • DC buses power-up • Localize Challenger 601 generation system components (TRU, IDG, GLAC, GTC, GCU etc) 	Preparation : Components position on aircraft; components purpose on aircraft Questionnaire on aircraft localization of components; aircraft electrical distribution system and power-up.	#3.6 (0263)
Week 12, 13, 14	6 per.	Become familiar with and troubleshooting performing exercises using simulation software for AC primary electrical generation systems.	<ul style="list-style-type: none"> • Become familiar with the simulator operation. • Become familiar with the operation of the involved systems. • Check proper operation of the circuits and systems on the simulator. • Determine a diagnosis of the operational status of the systems.. • Troubleshooting DC system 	Review primary AC generation on board an aircraft and its distribution. Use of manufacturer's technical documentation. ATA100 System.	#1.5, #2.1, #3.6 (0263) #3.8 (025T)
Week 15	2 per	Exam on malfunction detection on AC primary electrical generation systems and DC system troubleshooting using simulation software.	<ul style="list-style-type: none"> • Check proper operation of the circuits and systems on the simulator. • Determine a diagnosis of the operational status of the systems • Troubleshooting of DC system. <ul style="list-style-type: none"> • DURATION: 100 minutes per student 	Review primary AC generation on board an aircraft and its distribution. Use of manufacturer's technical documentation. ATA100 System.	#1.5, #2.1, #3.6 (0263) #3.8 (025T)

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SYNTHESIS OF SUMMATIVE EVALUATION METHODS

Theory

Description of Evaluation Activity	Context	Learning Objective(s)	Evaluation Criteria	Due Date (date assignment is due or examen given)	Weighting (%)
Homework	Individual Work -	#2, #3.5 à #3.9, #7 (025T) #1.1 à #1.4, #3 et #8 (0263)	<ul style="list-style-type: none"> Correctness of answers 	Weeks 4, 6	3% Total
				Weeks 9, 12, 14	5% Total
Complementary exercises selected by the teacher.	Individual work Answers at the back of study guide	#2, #3.5 à #3.9, #7 (025T) #1.1 à #1.4, #3 et #8 (0263)		Weeks 4, 6	1% (0.5% each)
				Weeks 9, 13	1% (0.5% each)
Test 1	Duration : 2 periods Without documentation	#2, #3.5 to #3.9, #7 (025T)	<ul style="list-style-type: none"> Correctness of answers Precision of calculations (2 decimals) – where applicable Respect of drawing norms for symbols, graphics and diagrams For troubleshooting questions: <ul style="list-style-type: none"> - Correct interpretation of measured values 	Week 7	20%
FINAL EVALUATION OF THE COURSE	Duration: 2 periods Page of notes (letter format, recto-verso, handwritten)	All		Week 15	30%

Sub-total : 60%

Practical Work

Description of Evaluation Activity	Context	Learning Objective(s)	Evaluation Criteria	Due Date (date assignment is due or exam given)	Weighting (%)
Week 2 – Laboratory preparation. Report on the inspection on the simulator of the DC generation system of a piston twin-engine aircraft.	Laboratory preparation with nominal theoretical values of the voltages (battery, external power, alternator) (50%). In teams of two. Compilation and analysis of the data. Individual evaluation of the laboratory work (25%) : Measurements, manipulations, interpretation of the information Evaluation of the team report (25%).	#3.5, #3.6 et #3.8 (025T)	<ul style="list-style-type: none"> • Proper use of measuring instruments • Correctness and clarity of answers 	Laboratory Week 4.	3%
Weeks 6 and 7 – Troubleshooting test Report on the inspection of semi-conductors	Individual on the simulator (see the laboratory description). 50% of the mark will be for the troubleshooting procedure, 50% for finding the cause. Individual. Compilation and analysis of the data.	#3.5, #3.6, #3.8 et #3.9 (025T) #2.5 (025T)	<ul style="list-style-type: none"> • Correct follow-up of work procedures • Proper use of measuring instruments • Correct interpretation of measured values • Correctness of diagnostic • Follow-up end-of-work procedures 	Week 6 or 7. 2 periods per student Week 7 or 6 2 periods per student	6% 6% mark received at the end of the test 3%
Week 8 Static inspection of an alternator, a starter or a starter-generator	In teams of two. Compilation and analysis of the data gathered. Measurements, manipulations, interpretation of information. Evaluation of the team report (100%)	#3.2, #3.3 (0263)	<ul style="list-style-type: none"> • Follow-up end-of-work procedures 	Laboratory Week 9	3%
Week 9 - Introduction to AC voltage measuring	Individual questionnaire on the lab demonstration	#1.1, #1.5, #2.1 (0263)		At the end of the lab	2%
Week 10 – King Air Distribution and Inverters inspection	Individual questionnaire check-up procedures(50%) Individual report on troubleshooting (50%)	#1.1, #1.5, #2.1 (0263)		At the end of the lab Week 10	3%
Week 11 Preparation on the role of components – Preparation on the localization of components Mini test on electrical distribution and power-up Questionnaire on the location of the components	Preparation on the role of components – 30% Preparation on the localization of components 25% Mini test 20% Individual Questionnaire on the location and the role of the components 25%	#1.1, #3.1à #3.3 et #3.6 (0263)	<ul style="list-style-type: none"> • Exactitude of components identification • Correctness and clarity of answers 	Preparation at the start of Laboratory Questionnaire during laboratory week 12	4%
Week 15 – Exam on AC and DC systems check-up for an aircraft with AC primary system	DC troubleshooting -50% AC and DC systems check-up 50%	#1.5, #2.1, #3.6 (0263) #3.8 (025T)	<ul style="list-style-type: none"> • Correct follow-up of work procedures • Proper use of measuring instruments • Correct interpretation of measured values • Correctness of diagnostic • Follow-up end-of-work procedures 	Laboratory Week 15.	10%

Sub-total: 40%
TOTAL: 100%

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If a student is absent for an activity or a part of an activity, he or she will receive the mark of zero for the report that corresponds to this activity or part of the activity during which he or she was absent. If the absence is for a serious and documented reason, the student will not be penalized.

REQUIRED MATERIAL

- Work clothes and accessories required by the college to work in the hangar (safety shoes, safety glasses)
- Theory and Workshop documents and presentations (available on LEA)
- Manufacturers documents (manuals and catalogues)

MANDATORY MANUAL

EISMIN, THOMAS K. – Aircraft Electricity & Electronics, Sixth Edition, Glencoe, 2014.

MEDIAGRAPHY

Manual available on loan at the library:

BYGATE, J.E. - Aircraft Electrical Systems, Single and Twin Engine. IAP Inc., 1990.

- ⊙ Additional documents are available on the internet and the college's network (as indicated by the teacher).

REQUIREMENTS TO PASS THE COURSE

(1) Passing Mark

The passing mark for this course is 60% (PIEA, article 5.1m).

(2) Course Attendance for Summative Evaluations

Attendance at summative evaluation activities is mandatory. (PIEA, article 5.2.5.1).

(3) Submitting Assignments

Homework required by the teacher must be handed in at the established date, place and time. The penalties associated with delays are established according to departmental rules (PIEA, article 5.2.5.2).

In case of delay the penalties are:

- See section « Règles des départements » at the following website link:
<http://guideena.cegepmontpetit.ca/regles-des-departements/>

(4) Presentation of Written Work

Students must follow the standards adopted by the College for written work (*Normes de présentation matérielle des travaux écrits*). These can be found in the documentation centre on the College web site (<http://www.cegepmontpetit.ca/normes>.) under the heading « **Méthodologie** ».

The **departmental penalties** for non-compliance with Written Work Standard Presentation (PIEA, article 5.3.2) are:

- See section « Règles des départements » at the following link:
<http://guideena.cegepmontpetit.ca/regles-des-departements/>

(5) Quality of the English language

The Teacher expects the use of proper English terminology. The formative evaluation also relates to the quality of oral and written English. If need be, the teacher will recommend that students register for an English course. When a given homework is considered to be unacceptable because of the quality of written English, the correction of this work will be delayed until the work is returned in the standards set by the teacher. In this case, penalties apply to any delay in submitting homework assignments. The teacher may allocate 10% of the mark for any assignment to the quality of oral or written English.

EXPECTATIONS OF CLASS PARTICIPATION

Laboratory safety and use of the premises:

Students must be under the supervision of a teacher or a technician whenever they are in the laboratory or using the equipment, unless otherwise indicated.

Any student whose conduct in the laboratory poses a risk to others will receive a warning from the teacher and then be excluded from the laboratory until the case can be reviewed by the teacher and the coordinator of the Avionics Department.

OTHER DEPARTMENTAL REGULATIONS

Students are encouraged to consult the website for the specific regulations for this course:
<http://guideena.cegepmontpetit.ca/regles-des-departements/>.

INSTITUTIONAL POLICIES AND REGULATIONS

All students enrolled in the École nationale d'aérotechnique of Édouard-Montpetit CEGEP must be aware of and comply with the contents of institutional policies and regulations. In particular, the *Politique institutionnelle de la langue française (PILF)*, the *Politique pour un milieu d'études et de travail exempt de harcèlement et de violence (PPMÉTEHV)*, the *conditions of admission and academic progress*, the *procedure dealing with student complaints within educational relations*.

The complete version of these policies and regulations is available on the CEGEP website at the following address: <http://www.cegepmontpetit.ca/ena/a-propos-de-l-ecole/reglements-et-politiques>. In case of discrepancy between the version appearing elsewhere and the complete version, the complete version will be applied and will be considered the official version for legal purposes.

APPENDIX

None.