

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**COURSE OUTLINE**

**COURSE TITLE:** Outdoor Equipment Certifications

**CODE NO. :** NET 107 **SEMESTER:** 10F

**PROGRAM:** Natural Environment Technician/Technologist

**AUTHOR:** Barry Oja, Jeff Cartwright

**DATE:** Sept 2010 **PREVIOUS OUTLINE DATED:** Jan 10

**APPROVED:** "B.Punch"

	Chair	DATE
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**TOTAL CREDITS:** 3 credits

**PREREQUISITE(S):** None

**HOURS/WEEK:** 3 hours per week

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*For additional information, please contact Brian Punch, Chair*

*School of Technology, Trades and Natural Resources*

*(705) 759-2554, Ext.2681*

- I. **COURSE DESCRIPTION:** Students will be trained through lectures and/or hands-on experience in the safe operation, care and maintenance of; snow machines, ATV's, chainsaws, clearing saws and motor boats. They will have the potential to earn safe operating certificates if they are successful with both the hands-on and the theory portion. To be eligible to receive a safety certificate, students must attend all theory and field portions of the course.

II. **LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

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

1. The Safe Operation & Maintenance of a boat and motor. This outcome represents 20% of grade.  
Acquire a Pleasure Craft Operator Card which is required by all persons operating a powered pleasure craft as of September 15, 2009. This outcome does not factor into the grading for this course as a student may already possess a valid certificate. Students will be responsible for additional costs to obtain this card.  
Potential Elements of the Performance:  
Participate in all lectures and labs on safe operation and maintenance of boats and motors. Demonstrate knowledge of safe boating techniques including: proper safety equipment, proper use of personal protective equipment, proper starting & stopping of motor, proper and appropriate docking procedures, proper and safe driving techniques.  
Recognize dangerous situations and describe ways to avoid them.  
Recognize environmental impacts on Canadian waters.  
Know and understand rules and regulations for recreational boating.
  
2. Safely operate a chainsaw at a basic level. This outcome represents 20% of the final grade.  
Potential Elements of the Performance:  
Participate in all lectures and labs on safe operation and maintenance of chain saws.  
Demonstrate safe operating techniques and saw maintenance including: saw safety and inspection, sharpening, fuel mixing, minor maintenance, use of personal protective equipment, safe starting procedures, directional notching and bucking.  
Safe limbing and light duty felling will be discussed in lab.  
Recognize dangerous situations and describe ways to avoid them.

3. Safely operate a clearing saw at a basic level. This outcome represents 10% of the final grade.  
Potential Elements of the Performance:  
Participate in all lectures on safe operation, proper use of personal protective equipment, safe starting procedures, maintenance of clearing saws and proper handling procedures.  
Demonstrate safe operating techniques including: proper use of personal protective equipment, safe starting procedures, fuel mixtures and proper handling procedures.
4. Safely operate an ATV at a basic level. This outcome represents 20% of the final grade. Students may have the opportunity to obtain the full Canada Council Safe Riding Certificate. This outcome does not factor into the grading for this course. Students may be responsible for additional costs to obtain this certificate.  
Potential Elements of the Performance:  
Participate in all lectures and labs on safe operation and maintenance of ATV's.  
Demonstrate safe riding techniques including: circle check, use of personal protective equipment, starting procedures, appropriate hand signaling, braking, mounting, dismounting, and weight transfer.  
Recognize dangerous situations and describe ways to avoid them.
5. The theory of safe operation of a snowmobile at a basic level. This outcome represents 10% of the final grade.  
Potential Elements of the Performance:  
Participate in all lectures and labs on safe operation and maintenance of snowmobiles.  
Instruction in safe riding techniques including: circle check, use of personal protective equipment, starting procedures, appropriate hand signaling, braking, mounting, dismounting, and weight transfer.  
Recognize potential riding hazards and describe ways to avoid them.

### III. TOPICS:

1. Safe Boating Operation.
2. Safe chainsaw operation.
3. Safe ATV operation.
4. Safe Clearing Saw operation.
5. Theory of Safe snowmobile operation.

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS: Students must be dressed appropriately for all weather conditions and wear all appropriate personal safety equipment. Specialized safety equipment needed for specific course instruction will be provided.**

**V. EVALUATION PROCESS/GRADING SYSTEM:**

Snowmobile Safe Riding Theory Test	10 %
Chainsaw Safe Operation Theory Test	10 %
Chainsaw Safe Operation Field Test	10 %
ATV Safe Riding Theory Test	10 %
ATV Safe Riding Field Test	10 %
Clearing Saw Safe Operation Theory Test	10 %
Safe Boating Theory Test	10 %
Safe Boating Operation Field Test	10 %
Final Exam	<u>20 %</u>
	100 %

The following semester grades will be assigned to students:

<b>Grade</b>	<b>Definition</b>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
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:**Attendance:

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. *It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers may not be granted admission to the room.*

**In order to receive a safe operating certificate for ATV, snowmobile, chainsaw, clearing saw, and boating, full attendance in all theory and field portions is required. Students with valid (as deemed valid by the professor) medical or personal reasons who miss portions of a certification course may have an opportunity to make up missed course material during a make-up period identified by the professor. The Pleasure Craft Operator card, available on line or through approved local sources, is not factored into the academic evaluation of the course and is to be completed by the student at his or her own expense.**

**Laptops will be permitted for course related use only!**

**Cell phones should not be used during class times for student safety.**

**VII. COURSE OUTLINE ADDENDUM:**

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

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources. Certifications may be added or removed depending on the size of the group and the availability of equipment and staffing.