

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON



COURSE OUTLINE

Course Title: EQUIPMENT OPERATION & MAINTENANCE
Part II

Code No.: NRT124 Semester: 2

Programs: PARKS & OUTDOOR RECREATION AND
FISH & WILDLIFE TECHNICIAN

Author: John Clement

Date: Mar 2002 Previous Outline Date: NEW

Approved: _____
Dean, Natural Resources Date
Programs

Total Credits: 2

Prerequisite(s):

Length of Course: 7 weeks

Total Credit Hours: 14

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written permission of The Sault College of Applied Arts & Technology is prohibited.*
*For additional information, please contact Brian Punch, Acting Dean,
Natural Resources Programs, (705) 759-2554, Ext. 688.*

I. COURSE DESCRIPTION:

This course introduces students to the safe operation, maintenance, repair and storage of motorized field equipment such as chainsaws, ATV's, snowmobiles, and brush saws. This course will also introduce students to the operation and maintenance of video and 35mm cameras and other equipment used in Natural Resources management including fishnets, traps, and power tools.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Operate and maintain various types of audio/video equipment

Potential Elements of the Performance:

- demonstrate proper techniques in the operation and maintenance of video and 35mm cameras
- operate, troubleshoot and maintain A/V equipment including slide projectors, overhead projectors, VCR's

2. Safe operation, troubleshooting and basic maintenance of off-road vehicles including snowmobiles, ATV's

Potential Elements of the Performance:

- prepare equipment for operation with routine maintenance and minor reperform a circle check of the ATV and snowmobile
- demonstrate safe operation of equipment
- loading and unloading of snowmobiles and atv's
- backing up of an atv

3. Use, maintain and repair various nets and live traps for the purpose of fish and wildlife surveys and/or the relocation of nuisance animals.

Potential Elements of the Performance:

- demonstrate proper techniques for setting nets and live traps
- observe proper fish and animal handling/transporting techniques
- perform minor maintenance and repairs on equipment

4. Safe operation, maintenance and trouble shooting of a chainsaw and Brush saw.

Potential Elements of the Performance:

- demonstrate proper techniques for sharpening a chainsaw and brush saw
- demonstrate safe operation of the brush saw and chain saw
- perform minor maintenance and repairs on chainsaws and brush saws

III. COURSE TOPICS

1. Operate and maintain various types of audio/video equipment.
2. Troubleshoot, maintain and operate and other off-road vehicles including snowmobiles, ATV's.
3. Safe Operation and Maintenance of chainsaws and brush saws.
4. Safe operation of nets and traps.

IV. METHOD OF EVALUATION:

Quizzes	30%
Hands On Labs	40%
Attendance	10%
Final Test on Entire course	<u>20%</u>
	100%

The following semester grades will be assigned to students in post secondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.75
B	70 – 79%	3.00
C	60 – 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade – limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see Policies & Procedures Manual – Deferred Grades and Make-up).	

NR Grade not reported to Registrar's office.
This is used to facilitate transcript
preparation when, for extenuating
circumstances, it has been impossible for the
faculty member to report grades.

Supplemental Exam Eligibility: Students who receive a final mark between 55 and 59 percent, may be eligible for a supplemental exam or supplemental assignment.

V. EQUIPMENT REQUIRED:

Hardhat, safety-toed boots, clipboard, pencils, axe, safety glasses, appropriate clothing (lab coat for indoors, rainwear and warm clothes for outdoors).

VI. REQUIRED REFERENCE MATERIAL: Small Gas Engines. Alfred Roth ISBN 1-56637-379-4

VII. SPECIAL NOTES:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Rights and Responsibilities*. Students who engage in "academic dishonesty" will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Students with medical conditions will provide, at all times, the appropriate medication.

Advanced Standing

Students who have completed an equivalent post-secondary course should bring relevant documents to the Co-ordinator, Natural Resources Programs.

Course outline amendments:

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.

Substitute course information is available in the Registrar's office.

Retention of Course Outlines

It is the responsibility of the student to retain all course outlines for possible future use in gaining advanced standing at other post-secondary institutions.

VIII PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

IX. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.