

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: Arborist Hand Tools 1

CODE NO. : ARB 603 **SEMESTER:** W16

PROGRAM: Utility Arborist Apprenticeship

AUTHOR: Jake McClelland

DATE: Feb 2016 **PREVIOUS OUTLINE DATED:**

APPROVED: Feb
2016

DATE

TOTAL CREDITS:

PREREQUISITE(S): None

HOURS/WEEK: 25 hours total

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I. PHILOSOPHY/GOALS:

This course will provide the student with the skills, tools and knowledge necessary to select adjust, maintain and store tools and equipment commonly used in the utility arboriculture trade.

II. STUDENT LEARNING OUTCOMES

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

- 1) Select, inspect, adjust, maintain, set-up and store manual and powered tools and equipment common to arboricultural operations.

Potential Elements of the performance.

- Identify, inspect, maintain, set up, and store the following hand tools including chisels, mallets, axes, sledge hammers, shovels, spades, picks, rakes, brooms, ladders, knives, pole pruners, pole saws, compressors, extension cords, maintenance and Adjustment tools, drills, augers and bits, brush saws, handsaws, rigging, ropes, friction savers, slings, Woopies, nylon webs, ropes, throw pouch, sling shot, loppers, secateurs, friction devices, connectors, karabiners, clevis, felling levers, wedges, rigging blocks, wire rope, synthetic ropes, tackle blocks, multi-sheave block, rope pullers, chainsaws, gas powered tools.
- Explain how to select the appropriate tool for various pruning methods, limb diameters and work to be completed.

- 2) Perform daily maintenance on chainsaws according to manufacturers' specifications as outlined in the owner / operators manual.

Potential Elements of the Performance:

- Explain how to inspect, clean and maintain the various components of a chainsaw.
- Describe how to properly fill a chainsaw with the proper gas mix and bar oil.
- Sharpen the chain with proper file selection.

- 3) Test chainsaw performance.

Potential Elements of the performance:

- Start chainsaw.
- Adjust throttle and carburetor settings as required.
- Test chain brake by engaging and disengaging brake

- 4) Perform daily maintenance on clearing saws according to manufacturers' specifications as outlined in the owner / operators manual.

Potential Elements of the Performance:

- Explain how to inspect, clean and maintain the various components of a clearing saw.
- Describe how to properly fill a clearing saw with the proper gas mix.
- Sharpen the cutting head with proper file selection.

III. **POTENTIAL TOPICS TO BE COVERED:**

Hand tools
Chainsaws
Brush Saws.

IV. **REQUIRED STUDENT RESOURCES**

None.

V. **EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)**

The final grade will be based on the following:

- 1) Attendance 25%
- 2) Demonstration and Quizzes 75%

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%	4.00
B	70 – 79%	3.00
C	60 – 69%	2.00
D	50-59%	1.00
F (Fail)	49% or less	0
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory 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.

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 will not be granted admission to the room.*

VI. COURSE OUTLINE ADDENDUM:

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