SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: WELDING

CODE NO.: v SEMESTER: W93

PROGRAM: ADVANCED MARINE & SMALL ENGINES

AUTHOR: GUNTER THOM

DATE: 1992-12-22 PREVIOUS OUTLINE DATED: 1991-03-20

APPROVED: ^ 7\\\^ C____- - \\ Dean, School of Technical Trades Date

WELDING FOR ADVANCED MARINE & SMALL ENGINES

Course Name Course Number

PHILOSOPHY/GOALS:

This course is intended to provide bsic instruction in the safe use of arc welding equipment.

METHODS OF ASSESSMENT (GRADING METHOD)

MARKING SYSTEM 1 Theory Test - 30% Skill Evaluation - 70%

A - 85%+

B - 75% - 84% TOTAL - 100%

C - 60% - 74% D - 50% - 59% F - Repeat

Instructors should provide marks in percentages. A mark of "D" must be balanced with a "B" (in another subject if necessary) to obtain a passing grade of "C" - average. Instructors should try for a class average of between 70 - 75%.

The instructor will determine which practical exercises will be used for grading.

TEXTPOOK(S);

I.A.S. (Instruction Aid Sheets) and notes. Students should be given a copy of the course outline.

OBJECTIVES:

The objectives are to provide the student with a basic knowledge of arc welding equipment, how to use it safely and how to make fillet welds in the flat, horizontal and vertical positions.

The instructor must ensure that those apprentices who had been excused from taking the Basic course, learn the essentials of the material previously covered.

The student should realize that all objective may not necessarily be met due to time constraints.

SUMMARY - MARINE &. SMALL ENGINES - ADVANCED

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCE
	T-THE L-LAB	ORY	
la		Introduction to program. Scope of SMAW.	
b	1/2T	Personal and shop safety.	SMAW I.A.S.#1
		Maintenance of shop and accessories.	
2a	1/2T	Types of welding machines.	SMAW
b		Current adjustments.	I.A.S.#2 Demo
3	1/2T	Electrical principles.	SMAW I.A.S.#3
4	161	Welding practices.	SMAW I.AS.#4
5	1/2T	Selection of filler metals.	Demo SMAW I.A.S.#5
6		Welding terms and definitions.	SMAW I.A.S.#6
7	1/2T	Weld faults.	SMAW I.AS.#7
8	2 L	Introduction GMAW	GMAW I.AS. #1
9	1/2T	Written test.	
TOTAL HRS.	3T, 13L -	10 WEEKS	