

#180,

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: WELDING
Code No.: MET822-3
Program: STEAMFITTING APPRENTICE - ADVANCED
Semester:
Date: 1989 05 19
Author: Bob Senechal

New: Revision: XX

APPROVED

Chairperson

Date

Course Name**Course Number****PHILOSOPHY/GOALS;**

The welding practices in this course should enable the student to become competent in tack welding and welding of fillets in position.

All exercises are designed so that the student learns to appreciate the need for a good pipe fit required by the pipe welder.

METHODS OF ASSESSMENT (GRADING METHOD):

MARKING SYSTEM	1 Theory Test	-	30%
	Skill Evaluation	-	60%
A - 85%	Attendance/Attitude	-	10%
B - 75% - 84%	TOTAL	-	100%
C - 60% - 74%			
D - 50% - 59%			
F - Repeat			

Instructors should provide marks in percentage. 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.

TEXTBOOK(S);

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

OBJECTIVES:

The basic objectives are to teach the student the techniques required by the pressure welder. No claim is made to achieve competence in pressure welding.

Gas tungsten arc welding principles will be introduced.

The student should realize that all objectives may not necessarily be reached due to time constraints.

- SUMMARY - STEAMFITTING APPRENTICE - ADVANCED

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCE
	T-THEORY L-LAB		
	1/2T	Introduction to program. Safety: personal, shop Maintenance of shop accessories.	Review from Intermediate I.A.S.ft1
2a b	1/2T	Welding generator-OCV adjustment - investigation of volt/ampere characteristics	I.A.S.#2 Demo
	4L	Welding practices. - outside corners F, H.V.O. F3 - F4 rods	I.A,S.#3 Demo
	6L	2F 1/8 E7018; 1/8 E6011 cross 3F 1/8 E7018; 1/8 E6011 cross 4F 1/8 E7018; 1/8 E6011 cross	
	5L	Butt joint 3/8 PL; F.H.V.O.	I.A.S.#4 Demo
	1/2T,4L	Pipeveld; 6" dia.; 5G	I.A.S.#5
	1/2T	Weldability of LAHS steels, stainless steels.	I.A.S.#6
7a b	1/2T	Boiler & Pressure Vessel Code CWB Class T; Class "S"	I.A.S.#7
8	1L	Introduction to GTAW	I.A.S.#8 Demo
9	1/2T	Written test	
TOTAL HRS.	3T, 21L	- 8 WEEKS	