

#166

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

COURSE QUIZ

Course Title: WELDING
Code No.: MET103-2
Program: MACHINE SHOP
Semester: W91
Author: Gunter Thorn

DATE 1991 01 04 PREVIOUS OUTLINE DATED: 1989 05 23

APPROVED: £) "7 *"- Vi^-.^c^ 
Dean, School of Technical Trades

Date ;v\ -? /<?f

WELDING

MET103-2

Course **Name**

Course Number

PHILOSOPHY/GOALS:

Basic welding skills and knowledge of the operation of welding equipment are needed by the machinist.

This course will serve as an introduction to general welding practices in a machine shop.

METHODS OF ASSESSMENT (RABIN & MEIHERG):

2 Theory Tests	-	30%
Practical Skill	-	70%
TOTAL		100%

TEXTBOOK(S):

I.A.S. Instruction Aid Sheets (handed out) and notes taken by students.
Students should be given the course outline summary for MET103-2.

OBJECTIVES:

The basic objective is to develop a student with safe work habits and sound skills in the use of O.A. welding and cutting equipment, stick electrode welding in the flat position, and in addition gain an appreciation of metallurgical principles involved in welding.

The passing grade is a "C".

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCE
	THEO/LAB		
1a	1/2	Orientation to program. Introduction to O.A. Welding.	I.A.S.#1
2a	1/2	Assembling and handling of equipment.	Notes
b		Construction of equipment.	Notes
c		Repairs to accessories.	Demo
d		Types of O. A. flames and fuel mixtures.	I.A.S.#2
e		Welding Terms, positions, joints.	I.A.S.#3
f		Filler metals and their selection.	Notes
g		Weld faults.	I.A.S.#4
3		Fusion welding practices.	Notes/Demo
4		Non-fusion welding practices.	I.A.S.#5
5		Cutting practices. Notes/Demo	I.A.S.#6
	1/2	Written Test	
TOTAL HRS.	2	10	6 WEEKS
7a	1/2	Introduction to SMAW. Types of welding machines and their adjustments.	I.A.S.#7
b		Electrical principles.	Demo I.A.S.#8
c		Repairs to accessories.	Demo
		SMAW practices.	I.A.S.#9 Demo
9a		Selection of welding machines.	I.A.S.#10
b		Selection of filler metals.	I.A.S.#11
c		Weld faults, recognition, prevention.	I.A.S.#12
d		Repair welding practices.	I.A.S.#13
e		Welding symbols.	Demo I.A.S.#14
10	1/2	Testing	
TOTAL HRS		16	9 WEEKS