

#195

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

COURSE OUTLINE

SKETCHING AND BLUEPRINT READING

Course Title: _____

Code No.: DRF 119-03

Program: Welding and Fabricating

Semester: One

Date: August 21, 1987

Author: G. Michaud

New: XX Revision: _____

APPROVED: Ivan Murphy
Chairperson

Sept 9/87
Date

SKETCHING AND BLUEPRINT READING

Approximate minimum hours of study.

THEORY

45 HOURS PER SEMESTER

SECTION

A

THEORY

1 hour

TOPIC INFORMATION

- the working drawing
- main types of blueprint format
- sketching multi-view drawings
- sketching pictorial drawings

B

1 hour

- types of sectional views
- auxiliary views

C

1 hour

- format of a working drawing
- material lists
- types of blueprints

D

1 hour

- dimensions and tolerances
- typical dimensions
- basic dimensioning system

E

2 hours

- materials and threaded fasteners
- structural shapes and terms
- standards for structural materials

WRITE TEST MFD1T

F

6 hours

- welding symbols
- types of weld joints
- basic weld types
- weld dimensions

WRITE TEST MFD2T

G

3 hours

- welding procedures
- code standards and specification
- reading and interpreting a welding procedure

WRITE TEST MFD3T

SECTION**THEORY****TOPIC INFORMATION**

H

4 hours

- pipefitting symbols for welding
- drawings for piping systems
- dimensioning piping systems

WRITE TEST MFD4T

I

4 hours

- reading welding blueprints
- procedures for reading blueprints
- interpreting shop blueprints

WRITE TEST MDF5T

J

1 hour

- reading concrete and reinforcing steel drawings

K

2 hours

- reading steel erection drawings

L

4 hours

- reading structural steel detail drawings
- calculating weights in bill of material

WRITE TEST**TOTAL HOURS****30**

ADDITIONAL EXERCISES

	DRAFTING	EXERCISES
A1	4 hours	- detail drawing of steel column - detail drawing of steel beam (Drafting Mark)
A2	2 hour	- detail drawing of channel iron door frame (Drafting Mark)
A3	2 hours	- draw template for 4 piece 90 deg. elbow (Drafting Mark)
A4	3 hours	- draw template for "Y" fitting (Drafting Mark)
A5	3 hours	- draw template for a rectangle to round transition piece (Drafting Mark)
A6	1 hour	- draw template for a cone (Drafting Mark)

TOTAL HOURS 15