

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

COURSE OUTLINE

Course Title: SKETCHING AND BLUEPRINT READING

Code No.: DRF119-03

Program: Welding and Fabricating

Semester: One

Date: August 1988

Author: G. Michaud

New: \_\_\_\_\_ Revision: XX

APPROVED: *Ivan Murphy*  
Chairperson

*Aug 19/88*  
Date



**SKETCHING AND BLUEPRINT READING**

Approximate minimum hours of study.

THEORY

45 HOURS PER SEMESTER

## SKETCHING AND BLUEPRINT READING

SECTION	THEORY	TOPIC INFORMATION
A	1 hour	<ul style="list-style-type: none"><li>- the working drawing</li><li>- main types of blueprint format</li><li>- sketching multi-view drawings</li><li>- sketching pictorial drawings</li></ul>
B	1 hour	<ul style="list-style-type: none"><li>- types of sectional views</li><li>- auxiliary views</li></ul>
C	1 hour	<ul style="list-style-type: none"><li>- format of a working drawing</li><li>- material lists</li><li>- types of blueprints</li></ul>
D	1 hour	<ul style="list-style-type: none"><li>- dimensions and tolerances</li><li>- typical dimensions</li><li>- basic dimensioning system</li></ul>
E	2 hours	<ul style="list-style-type: none"><li>- materials and threaded fasteners</li><li>- structural shapes and terms</li><li>- standards for structural materials</li></ul>

### WRITE TEST MFD1T

F	6 hours	<ul style="list-style-type: none"><li>- welding symbols</li><li>- types of weld joints</li><li>- basic weld types</li><li>- weld dimensions</li></ul>
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### WRITE TEST MFD2T

G	3 hours	<ul style="list-style-type: none"><li>- welding procedures</li><li>- code standards and specification</li><li>- reading and interpreting a welding procedure</li></ul>
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### WRITE TEST MFD3T

SECTION	THEORY	TOPIC INFORMATION
H	4 hours	<ul style="list-style-type: none"> <li>- pipefitting symbols for welding</li> <li>- drawings for piping systems</li> <li>- dimensioning piping systems</li> </ul>
<b>WRITE TEST MFD4T</b>		
I	4 hours	<ul style="list-style-type: none"> <li>- reading welding blueprints</li> <li>- procedures for reading blueprints</li> <li>- interpreting shop blueprints</li> </ul>
<b>WRITE TEST MDF5T</b>		
J	1 hour	<ul style="list-style-type: none"> <li>- reading concrete and reinforcing steel drawings</li> </ul>
K	2 hours	<ul style="list-style-type: none"> <li>- reading steel erection drawings</li> </ul>
L	4 hours	<ul style="list-style-type: none"> <li>- reading structural steel detail drawings</li> <li>- calculating weights in bill of material</li> </ul>
<b>WRITE TEST</b>		
<b>TOTAL HOURS</b>	<b>30</b>	

## 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**