

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: WELDING

CODE NO: MET 822

SEMESTER:

PROGRAM: STEAMFITTING APPRENTICE - ADVANCED

AUTHOR: DENNIS SOCCHIA

DATE: FEBRUARY 1994

PREVIOUS OUTLINE DATED: MAY 1989

APPROVED: **Q M** 
Dean, School of Technical Trades

Date

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COURSE NAME: WELDING

CODE NO.: MET822-3

TOTAL CREDIT HOURS:

I. PHILOSOPHY/GOALS:

The welding practices in this course should enable the student to become competent in welding of fillet and groove (or simulated groove) welds in the F, H, V and OH positions. Practical exercises should also help students appreciate the need for a good pipe fit-up prior to welding.

II. STUDENT PERFORMANCE OBJECTIVES:

To teach the student basic welding techniques that are required for pressure vessel applications.

To provide the student with a realistic degree of confidence in his or her ability to deposit sound welds.

III. TOPICS TO BE COVERED:

1. Introduction/Orientation and Welding Safety
2. Basic (Group) Skill Test
3. Horizontal Fillet and Groove Welds
4. Weld Quality and Assurance Criteria
5. Vertical Fillet and Groove Welds
6. Overhead Fillet and Groove Welds
7. Theory Test
8. Weld (Bend) Test

Note: The instructor reserves the right to modify and/or change course objectives and topics in order to better serve the needs of the class.

IV. LEARNING ACTIVITIES

REQUIRED RESOURCES

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V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS ETC.)

1 Theory Test	25%	
Skill Evaluation	<u>75%</u>	
TOTAL		100%

- A - 85-100%
- B - 75-84%
- C - 60-74%
- D - 50-59%
- F - Repeat

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

VI. REQUIRED STUDENT RESOURCES

I.A.S. (Instruction Aid Sheets) and notes.

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

VIII. SPECIAL NOTES

Students with special needs (eg. physical limitation, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of the students.