

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: WELDING

CODE NO: **IRN 604** SEMESTER: N / A

PROGRAM: **IRONWORKER - BASIC**

AUTHOR: **D. SOCCHIA**

DATE: Oct 1993 PREVIOUS OUTLINE DATED:

APPROVED: **j£ > p^f**  Dat°
• Dean, School of Technical Trades

COURSE NAME: WELDING

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TOTAL CREDIT HOURS: 32 (8 x 4 hrs)

PREREQUISITE(S): ironworker Apprenticeship

I. PHILOSOPHY/GOALS:

To provide apprentices with an introductory overview of the S.n.A.W. process complete with the appropriate 'hands on' skill required to perform routine job tasks. Secondly, to provide the necessary background for the next level of training.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

- 1) Set up and operate a typical S.M.A.W. station with proper due regard for personal safety, equipment limitations and job requirements.
- 2) Identify, select and use common welding electrodes in accordance with sound welding practices.

III. TOPICS TO BE COVERED:

1. Course Introduction and Orientation.	1 Hr.
2. Safety and Set-up for Shielded Metal Arc Welding.	2 Hrs
3. Fire Hazards and Fire Extinguishers.	1 Hr.
4. Electrode Numbering Systems	1 Hr.
5. Basic Welding Symbols and Joint Designs.	2 Hrs
6. Welding Tests and Testing Agencies.	1 Hr.
7. Basic Arc Welding Exercises.	18 Hrs
*** Shop and Theory Tests / Quiz(s)	6 Hrs

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

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

General Assessment

* Final Mark

A = 85 - 100 %

Shop Tests 75 %

B = 75 - 84 %

Theory Tests and Quiz(s) 25 %

C = 60 - 74 %

D = 50 - 59 %

F = 0 - 49 %

REQUIRED STUDENT RESOURCES:

Welding Shield

Welding Gloves

Safety Work Boots (C.S.A. Approved)

Impact Resistant Safety Glasses (C.S.A, Approved)

Scientific Calculator 1 red)

3 Pens (1 blue, 1 black,

Binder c/w Paper

Steel Tape Rule c/w Imperial and Metric Scales

Welding Text (New Lessons in Arc Welding)

SPECIAL NOTES:

Attendance to all classes is mandatory and will be recorded on an hour-by-hour basis using the 'Record of Attendance Form'