

COURSE NAME: WELDING

CODE NO. N/A

TOTAL CREDIT HOURS:

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

To provide students with a basic level of skill in dealing with common arc welding equipment, practices and procedures. Secondly, it will introduce a variety of techniques for position welding using the F3 and F4 electrodes.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1. Perform arc welding operations in a safe, well organized manner.
2. Produce fillet and groove welds having sufficient quality to pass a typical visual and/or destructive test.
3. Develop an appreciation for the time and cost factors involved with welding in the 'out-of-flat' position.

III. TOPICS TO BE COVERED:

1. Program Introduction and Orientation
2. Course Outline, Guidelines and Grading
3. Welder Safety
4. Electrode and Amperage Selection
5. Flat Welding Exercises using E6011, E7018, E7024
 - single pass fillets
 - multi pass fillets
 - square groove welds c/w backing
6. Horizontal Welding Exercises using E6011, E7014, E7018
 - multi pass fillets
 - multi pass groove c/w backing
7. Practical Test #1
8. Vertical [Down] Welding Exercises using E6011, E6012
 - multi pass fillets on plate
 - single pass fillets on gage metal
9. Vertical [Up] Welding Exercises using E6011, E7018
 - pad exercise
 - multi pass fillets
10. Practical Test #2

Note: Performance objectives and/or course topics may not always be achieved or covered to the ideal depth owing to circumstances beyond our control (i.e. holidays, weather, sickness, equipment failure, etc.)

COURSE NAME: WELDING (HDE APPRENTICES)

CODE NO.

IV. LEARNING ACTIVITIES _____ REQUIRED RESOURCES
(Optional)

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

General Assessment
A = 85 - 100%
B = 75 - 84%
C = 60 - 74%
D = 50 - 59%
F = 0 - 49%

* Final Mark
Practical Test #1 50%
Practical Test #2 50%
Attendance (** See Attached)
Total100%

VI. REQUIRED STUDENT RESOURCES

C.S.A. APPROVED SAFETY WORK BOOTS
C.S.A. APPROVED SAFETY (IMPACT) GLASSES
WORK WEAR

NOTEBOOK, PAPER, PEN

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY BOOK SECTION:

N/A

VIII. SPECIAL NOTES

* Student evaluations concerning the 'final mark' are further affected by the conditions set forth in the printed handout, 'Guidelines for Related Welding'.
BE SURE TO OBTAIN A COPY FROM YOUR INSTRUCTOR.

:M: Special Guidelines for Safety and Class Attendance are included in the above handout.