

Minnesota State College Southeast

WELD 1425: GMAW-MIG Wire Feed II

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: 6

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is a continuation of WELD1420 (GMAW-MIG Wire Feed I) and will expand the student's knowledge and practice to include more welding positions. All the welding will take place in the vertical up position and/or the overhead position. The student will also learn the differences in machine set-up to accommodate these other positions. (Prerequisite: WELD1420) (3 credits: 0 lecture/3 lab)

B. COURSE EFFECTIVE DATES: 04/07/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Demonstrate the proper safe use and storage of compressed gases
2. Demonstrate the proper set-up and start-up procedures
3. Identify the different parts of the welding equipment
4. Identify the different types of gases and mixtures
5. Demonstrate the proper set-up and use of flow meters
6. Identify the different types of welding wire
7. Demonstrate proper welding equipment set-up when welding out-of-position
8. Demonstrate proper stringer bead welding in both the vertical up and overhead positions
9. Demonstrate proper lap welds in both the vertical up and overhead positions
10. Demonstrate proper fillet welds in both the vertical up and overhead positions
11. Demonstrate proper butt welds in both the vertical up and overhead positions
12. Demonstrate proper inspection of welds and identify defects
13. Demonstrate proper shut-down of welding equipment
14. Demonstrate proper shut-down and storage of gases
15. Demonstrate proper maintenance of welding equipment

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted