

Lake Superior College

WLDG 1560: Gas Metal Arc Welding I

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces students to the gas metal arc welding process including equipment, terms, and safety procedures. Students will learn how to setup, adjust, and shut down gas metal arc welding equipment. Students will be able to deposit surface welds in the flat position. Square groove and fillet butt, lap, and T-joints welds in the flat and horizontal position will also be covered. Students will be introduced to welding variables as it affects the quality of welds. (Prerequisites: None) (2 hrs lec/2 hrs lab/0 hrs OJT)

B. COURSE EFFECTIVE DATES: 04/21/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. describe welding terms, test positions, and nomenclature
2. describe the gas metal arc welding process
3. identify important safety rules
4. operate gas metal arc welding equipment
5. weld in the flat position utilizing surfacing technique
6. produce square groove and fillet welds in the flat position
7. produce square groove and fillet welds, butt, lap, and T-joints in the horizontal position
8. discuss the effect that gas metal arc welding variables have on the quality of welds
9. apply square and fillet welds to produce lab project

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted