Course Prefix and Number: WEL 160  
Credits: 3

Course Title: Gas Metal Arc Welding (MIG and FCAW)

Course Description:
Introduces practical operations in the use of gas metal arc welding and equipment. Studies equipment operation setup, safety, and practice of semi-automatic welding processes. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose:
To assist students in developing job skills needed to enter the work force in the welding occupation and as a means to help students acquire the skills necessary to be a GMAW welder.

Course Objectives:
Upon completing the course, the student will be able to:
1. Recognize and use the proper safety procedures while welding.
2. Demonstrate the ability to perform correct equipment setup.
3. Demonstrate the ability to use semi-automatic welding equipment.
4. Demonstrate the ability to successfully complete MIG and Flux core welds.

Major Topics to be Included:
1. Safety
2. Equipment setup
3. Selection of filler materials and gasses
4. Selection of GMAW consumables
5. MIG welds in the various positions

Effective Date of Course Content Summary: November 20, 2012