Virginia Western Community College
WEL 130
Inert Gas Welding (MIG)

Prerequisites
WEL 120 or division approval.

Course Description
Introduces practical operations in the uses of inert-gas-shield arc welding. Discusses equipment, safety operations, welding practice in the various positions, process applications, and manual and semi-automatic welding.

Semester Credits: 3 Lecture Hours: 2 Lab/Clinical/Internship Hours: 3

Required Materials

Textbook:
Modern Welding. 11th Edition. ISBN 978-1-60525-795-2.

Other Required Materials:
None.

Course Outcomes

At the completion of this course, the student should be able to:

Introduces practical operations in the uses of inert-gas-shield arc welding. Discusses equipment, safety operations, welding practice in the various positions, process applications, and manual and semi-automatic welding.

Topical Description

- WEEK 1 Introduction to GMAW
  Lab: Introduction and Identification
- WEEK 2 Lesson 9 A Handout
  Lab: Create a stringer bead and build a pad
- WEEK 3 Lesson 9 A Handout
  Lab: Create a stringer bead and build a pad
- WEEK 4 Lesson 9 B Handout
  Lab: Job 9 C-1 Handout
- WEEK 5 Lesson 9 B Handout

Lab: Job 9 C-1 Handout

- WEEK 6 GMAW Safety from Chapter 9
  Lab: Job 9 C-2 Handout
- WEEK 7 Test One
  Lab: Job 9 C-2 Handout
- WEEK 8 Lesson 9 B-1 Handout
  Lab: Job 9 C-3 Handout
- WEEK 9 Chapter 9 Correct torch movement for position
  Lab: Job 9 C-3 Handout
- WEEK 10 Lesson 9 C Handout
  Lab: Job 9 C-4 Handout
- WEEK 11 Test Two
  Lab: Job 9 C-4 Handout
- WEEK 12 Handout
  Lab: Job 9 C-5 Handout
- WEEK 13 Handout
  Lab: Job 9 C-6 Handout
- WEEK 14 Lab Projects
  Lab: Begin Vertical weld position
- WEEK 15 Lab Projects
  Lab: Continue Vertical weld position
- WEEK 16 Final Exam
- All Job sheets are due at the end of each class.

Notes to Instructors

- None