

WLD 121 GMAW (MIG) FCAW/Plate

COURSE DESCRIPTION:

Prerequisite: DMA 010, 020, 030, DRE 096 or satisfactory score on placement test

Corequisite: None

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions. Course Hours per Week: Class, 1; Lab, 3 Semester Hours Credit: 2

LEARNING OUTCOMES:

Upon completion of this course, the student will be able to:

- a. List methods of metal transfer.
- b. List parts of a gas metal arc welding setup.
- c. Configure a constant potential, semiautomatic arc welding unit.
- d.

V. Other constant potential welding processes

- a. Submerged arc welding
- b. Weld travel
- c. Electrode feed
- d. Contact tip
- e. Flux
- f. Arc starting

REQUIRED TEXTBOOKS AND MATERIALS:

Welding, Principles and Applications

Author: Larry Jeffus

Seventh edition

ISBN: 978-1-111-03917-2

Students will also need OSHA approved safety glasses. Steel toe work boots or shoes are preferred but not required.