

Revised Semester/Year

WEL 130

Inert Gas Welding

COURSE OUTLINE

Prerequisites:

WEL 120

Course Description: (must be word-for-word from the College Catalog)

WEL 130 Inert Gas Welding (3 CR) Prerequisite: WEL 120 or divisional approval. 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. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

Semester Credits: 3 Lecture Hours: 2 Lab/Recitation Hours: 3

WEL 130

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.

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Required Materials:

Safety Glasses (must be worn at all times while in the lab)
Proper shade lens and hood for welding process
All other personal protective equipment

Textbook:

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

The following supplementary materials are available:

- 1.
- 2.
- 3.

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Topical Description: (Outline chapters and sections to be covered in the book – may include timeline)

- 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.



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Notes to Instructors

(List information about optional topics, departmental exams, etc)

1.

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