

MFGT 63 Syllabus

Welding Certification Preparation

Summer 2023 – Code: 58813

Arranged Time Lab Class

Instructors: Andrew Mancini

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Office Hours: By appointment, schedule via email

Co-requisite: MFGT 61

Advisories: Math 45 & English 1A or 1AH

Course Description

Variable Units: 0.5 – 2

This course provides continued practice on out-of-position welding leading to AWS certification exam procedures. Students will develop, improve, and refine welding skills through guided practice in a lab setting. This class is offered as a variable unit class that can be repeated to complete additional modules. COREQUISITE: Manufacturing Technology 61. PREREQUISITE: Coursework equivalent to MFGT 61 or verified work experience in the field. ADVISORIES: Mathematics 45 and English 1A or 1AH. (A, CSU)

Required Text/Materials: None

Student Learning Outcomes

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

- MFGT-63 SLO1: Produce certified weldments.
- MFGT-63 SLO2: Integrate code standards and procedures into welding.

Course Objectives

- Review and use correct safety procedures for welding related equipment.
- Demonstrate certification level skills in out-of-position plate. Processes will include SMAW, GMAW, GTAW, and FCAW.
- Explain certification procedures for welding.
- Record data necessary to complete welding procedure specifications.

Grading

Point Distribution: 90% = A, 80% = B, 70% = C, 60% = D, 59% & less = F

Assignments & Grades:

| | |
|----------------------------|---------------|
| Project(s) | 50% |
| Skill Demonstration(s) | 25% |
| <u>Class Participation</u> | <u>25%</u> |
| Total | = 100% |

Important Dates

- Orientation May 16
- First day of class May 23
- Last Day to drop class with a “W” June 23
 - letter grade will be assigned after this date
- Certification Days (1-3 days) Arranged Dates
- Class ends June 23