

Clackamas Community College

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Section #1 General Course Information**Department:** Welding**Submitter**

First Name: Sue

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Phone: 3065

Email: suec

Course Prefix and Number: WLD - 113A**# Credits:** 4**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours): 88

Lab (# of hours):

Total course hours: 88

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Gas Metal Arc Welding/Flux Core Arc Welding (Wirefeed)**Course Description:**

The first half of WLD-113 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Welding AAS

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. complete a safety test that includes applicable sections of the text book, Clackamas Community College safety rules and policies;
2. set up and operate GMAW (Gas Metal Arc Welding) equipment,
3. operate oxy fuel cutting using both manual and semi-automatic equipment,
4. complete a progress chart of fillet welds with GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding) electrodes in the flat and horizontal positions using proper welding techniques,
5. complete a progress chart of groove welds with GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding) electrodes in the flat position using proper welding techniques,
6. set up and operate carbon arc cutting equipment,
7. set up and operate plasma arc cutting equipment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Class orientation, safety, and shop practices.
2. Safety, set up and operation of GMAW (Gas Metal Arc Welding) equipment.
3. Safety, set up and operation of oxy fuel cutting, using both manual and semi-automatic equipment.
4. Electrode selection and welding Techniques.
5. Fillet welds in the flat and horizontal positions on steel.
6. Flat groove welds on steel.
7. Safety, set up and operation of Carbon arc cutting.
8. Safety, set up and operation of plasma cutting equipment.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Next available term after approval

:
