

Clackamas Community College
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Section #1 General Course Information

Department: Welding

Submitter

First Name: **Dustin**

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Email: **dustinb**

Course Prefix and Number: WLD - 212

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: Shielded Metal Arc Welding Pipe Welding

Course Description:

This class is designed to teach students the fundamentals of open root pipe welding. Theory and practical instruction in open root V groove pipe welding using E6010 and E7018 electrodes will be provided. Oxy-fuel pipe cutting is also included.

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): Elective in the Welding Technology AAS degree

Are there prerequisites to this course?

Yes

Pre-reqs: Pass WLD-211

Have you consulted with the appropriate chair if the pre-req is in another program?

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. demonstrate safety in a welding environment,
2. select personal protective equipment needed to perform welds safely,
3. perform quality root passes in all positions using E6010 electrodes,
4. perform quality fill and cover passes in all positions using E7018 electrodes,
5. demonstrate proper machine set up, operation, and minor repairs to SMA welding equipment;
6. review codes, standards, and specifications for welding on pipe;
7. repair weld defects on pipe projects,
8. participate in maintaining a clean and orderly shop.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Safety.
2. E6010 and E7018 fundamentals.
3. Open root welds.
4. Pipe preparation.
5. Pipe fit-up.
6. Pipe welding positions.
7. Root pass.
8. Hot pass.
9. Filler passes.

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 | Yes |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 5%

First term to be offered:

Next available term after approval

:
