

Clackamas Community College

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Section #1 General Course Information**Department:**Welding**Submitter**First Name: **Mike**Last Name: **Mattson**Phone: **3322**Email: **mattsonm****Course Prefix and Number:**WLD - 210**# 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:Pipe Welding**Course Description:**

Provides beginning theory and practical instruction in the Shielded Metal Arc Welding (SMAW) process on steel plate and pipe. The specific projects include: stringer beads, fillet and groove welds on plate with root and cover proficiency, pipe cutting using the oxy-fuel process, and groove welds on pipes in all positions.

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?

Yes

Pre-reqs:Pass WLD-111 or WLD-111A and WLD-111B, pass WLD-150 or prior experience in SMAW

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

Yes (A 'Yes' certifies you have talked with the chair and have received approval.)*

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?

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?

✓ Fall

- ✓ **Winter**
- ✓ **Spring**

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. prepare steel plate and pipe for open-root, butt-joint welds;
2. operate oxy-fuel cutting equipment to bevel plate and pipe,
3. perform hand fitting of joints to meet AWS assembly standards,
4. weld a satisfactory root and hot passes using E6010 electrodes on plate and pipe,
5. weld satisfactory filler and cover passes using E7018 electrodes on plate and pipe.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Safety.
2. E6010 and E7018 fundamentals.
3. Plate preparation.
4. Open root plate welds.
5. Root pass.
6. Hot pass.
7. Filler passes.
8. Cover pass.
9. Pipe preparation.
10. Pipe welding positions.
11. Inspection.

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

:
