

Clackamas Community College
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Section #1 General Course Information

Department: Welding

Submitter

First Name: John

Last Name: Phelps

Phone: 6378

Email: johnp

Course Prefix and Number: WLD - 110

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: Welder Certification

Course Description:

This course provides theory and practical instruction to become a certified welder. Students will choose a welding process (flux core arc welding, shielded metal arc welding, or gas tungsten arc welding) for certification. Material needed for practice welding will be provided. Students will take a welding certification exam at the end of the class.

Type of Course: Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 12

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?

✓ **Summer**

✓ **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. demonstrate safety in a welding shop environment;
2. select personal protective equipment needed to perform welds safely;
3. operate welding equipment safely;
4. demonstrate skills needed to become certified;
5. demonstrate the responsibility that comes with certification;
6. explain the acceptance criteria for the visual examination;
7. explain the criteria for bend testing.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Class orientation, safety, and shop practices
2. Plate preparation
3. Defects
4. Visual acceptance criteria
5. Welding Procedure Specifications (WPS)
6. Welding codes
7. Welder responsibilities

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

:
