

Clackamas Community College
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Section #1 General Course Information

Department: Automotive

Submitter

First Name: **John**

Last Name: **Phelps**

Phone: **6378**

Email: **johnp**

Course Prefix and Number: AB - 123

Credits: 2

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): **48**

Lab (# of hours):

Total course hours: **48**

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: Collision Repair Welding II

Course Description:

Training in light gauge metal repair: Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), Squeeze Type Resistance Spot Welding (S-TRSW), and other advanced welding techniques specific to collision damage repair.

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): Collision programs

Are there prerequisites to this course?

Yes

Pre-reqs: Pass AB-112.

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?

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: No

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. complete sound welds in all positions using the GMAW process on 16-22 gauge mild steel,
2. complete sound welds on auto body gauge mild steel,
3. safely setup and use GMAW and PAC equipment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Equipment set-up and safety information.
 - a. GMAW (Gas Metal Arc Welding) process.
 - b. plasma arc cutting.
2. Correct set – up of GMAW equipment, in preparation of welding.
3. Demonstrations of correct GMAW procedures for welding on light gauge material (16 – 22 gauge) in all positions (flat, horizontal, vertical and overhead).
 - a. Butt welds with and without backing.
 - b. Lap welds.
 - c. Plug welds.
 - d. special application: hole – fill, patch, fit-up, sleeve inserts.
4. Demonstration of correct plasma arc cutting procedures on mild steel and aluminum.
5. Cover the contents of I-CAR enhanced CD training program.
6. Squeeze type resistance spot welding (S-TRSW).
7. Cover how to correctly make the repairs required for the I-CAR Frame Rail test (SPS-O5).

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

:
