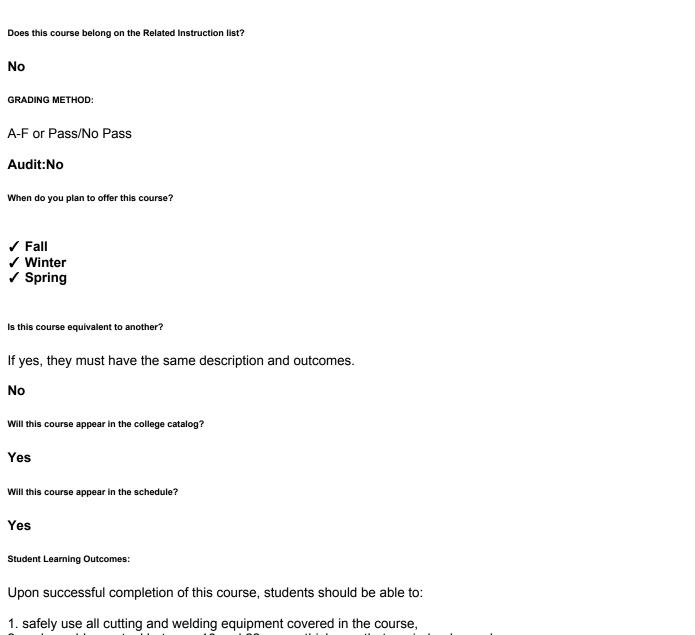
Clackamas Community College

Online Course/Outline Submission System

Show changes since last approval in red
AB-112 Collision Repair Welding I
General education certified: Yes No
 □ Writing □ Oral Communication □ Arts and Letters □ Science & Computer Science □ Mathematics □ Social Science □ Cultural Literacy □ Health & Physical Education
Approved Date (mm/dd/yyyy): // // Submit
Section #1 General Course Information Department: Automotive
Submitter
First Name: John Last Name: Phelps Phone: 6378 Email: johnp
Course Prefix and Number: AB - 112
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 I

Course Description:
Focus on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, oxygen-acetylene cutting.
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 Repair & Refinishing Technology
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?
No
Is there any other potential impact on another department?
No



- 2. make welds on steel between 16 and 22 gauge thickness that are judged sound,
- 3. weld in all positions (flat, horizontal, vertical, and overhead) using the GMAW process;
- 4. determine if the welds made are fit for service in a modern automobile.

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. OAC (Oxygen-Acetylene Cutting) process.
- 2. Correct set-up of GMAW equipment, in preparation of welding.
- 3. Demonstrations of correct GMAW welding procedures for LAHS (High Strength Steel). Welds are to be performed in all positions (flat, horizontal, vertical and overhead) on light gauge material (approx. 16 22 gauge).
- 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 OAC procedures on mild steel materials.
- a. Setting up of OAC equipment.
- b. Piercing of metal to produce holes
- 5. Cover the contents of I-CAR. enhanced CD training program 1 and 5.

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

Increased energy efficiency
 Produce renewable energy
 Prevent environmental degradation
 Clean up natural environment
 Supports green services

Percent of course:0%

First term to be offered:

Next available term after approval

: