

AUTO BODY/COLLISION REPAIR AND REFINISHING TECHNOLOGY, CAREER PATHWAY CERTIFICATE

Program Code: CC.ABCOLRRTECH

The Auto Body/Collision Repair Refinishing Technology program simulates real working conditions in a well-equipped modern shop facility. Training combines intensive theory and practical lab experience tailored to specific needs. In order to complete the program in three consecutive terms, students must start fall term.

Technicians repair or replace parts, straighten frames and Unibody structure, install and adjust components and glass, repair electrical systems, restraints, suspension components, brakes, prepare all types of surfaces for necessary refinishing operations, mix and apply modern waterborne and solvent-borne paint products, and finish their work to industry standards. Skills learned include welding, metal straightening, filler use, plastic repair, surface preparation, masking, product selection, mixing, color matching and application techniques, as well as detailing and troubleshooting. This certificate qualifies students to apply for I-CAR Pro Level 1 Certification.

For information contact Dustin Bates, 503-594-3973 or dustinb@clackamas.edu, or the Automotive and Welding Department, 503-594-3047.

Outcomes

Program Outcomes

Upon successful completion of this program, students should be able to:

- demonstrate the proper selection of tools and materials needed to perform metal straightening and plastic filler repair processes;
- prepare a repaired surface, choose and apply appropriate materials, block sand, clean surface, and apply topcoat, detail;
- repair sheet metal damage, demonstrate panel replacement techniques, identify structural damage, and formulate viable repair processes;
- perform spot repairs and blends using the latest industry accepted practices and materials, to the standards of industry;
- demonstrate skill in major body repair, including frame and Unibody repair;
- perform a variety of welding processes needed to properly repair vehicles of both steel and aluminum construction, in accordance with I-CAR guidelines;
- demonstrate competency in Collision Repair Estimating, using Mitchells guides, and Audatex, and CCC-ONE software.

Requirements

| First Term | | Credits |
|------------|----------------------------------|---------|
| AB-112 | Collision Repair Welding I | 2.00 |
| AB-113 | Collision Repair I/Nonstructural | 6.00 |
| AB-149 | Collision Repair Estimating I | 2.00 |

| | | |
|----------------------|--|-----------|
| ABR-125 | Collision Repair/Refinishing I | 6.00 |
| Credits | | 16 |
| Second Term | | |
| AB-123 | Collision Repair Welding II | 2.00 |
| AB-133 | Collision Repair II/Structural | 6.00 |
| AB-150 | Collision Repair Computerized Estimating - Audatex | 2.00 |
| ABR-127 | Collision Repair/Refinishing II | 6.00 |
| Credits | | 16 |
| Third Term | | |
| AB-222 | Collision Repair III/Advanced Structural | 6.00 |
| ABR-129 | Collision Repair/Refinishing III | 6.00 |
| Credits | | 12 |
| Total Credits | | 44 |

Careers

Career opportunities include:

- prepper
- masker
- painter's helper
- body technician at independent, dealership, or fleet repair facilities in any transportation-related field:
 - automotive
 - trucking
 - transit
 - light rail
 - aircraft
 - recreational vehicle
 - industrial
 - marine