



PROFESSIONAL COLLISION REPAIR TECHNICIAN

Professional Collision Repair Technician Certification

Refinish and repair damaged vehicles.

Collision Repair Technology is taught in a simulated repair shop environment where students are able to practice their skills on full and partial vehicles. ICAR certification is embedded as part of the curriculum, and will be earned in the course of the program. This program will help students learn a variety of skills used in the industry, including the following:

- Tool identification and function
- Non-structural repair techniques
- Surface preparation and painting
- Flat, vertical and overhead MIG welding

Prerequisites:

- Student will be 18 or older by the end of the first year of the program

Suggested educational levels:

- English literacy (reading, writing, speaking, and listening)
- Understanding of basic algebra

Suggested physical abilities:

- Capable of lifting 50 pounds
- Capable of sustained activity for 5 hours at a time

Class Hours:

- Morning: 7:50am - 10:40am Mon.- Fri.
- Afternoon: 12:05pm - 2:55pm Mon.- Fri.
- Program is 4 semesters in length, with start dates in Fall
- Non-structural Semesters and Refinish Semester are offered on yearly rotation

Tuition and Credit Hour Calculation

Semester 1 (Non-Structural)

\$1,690.00 (Tuition)
 + \$180.00 (Credit Hour Fee)
 \$1,870.00

Semester 2 (Non-Structural)

\$1,690.00 (Tuition)
 + \$180.00 (Credit Hour Fee)
 \$1,870.00

Semester 1 (Refinish)

\$1,560.00 (Tuition)
 + \$170.00 (Credit Hour Fee)
 \$1,730.00

Semester 2 (Refinish)

\$1,690.00 (Tuition)
 + \$180.00 (Credit Hour Fee)
 \$1,870.00

Based on Colorado Resident In-State Tuition

Estimated Program Costs (to be paid at Picken's payment office)

Tuition and Credit Hour Fees:

(Non-Structural) Semester 1: \$1,870.00
 (Non-Structural) Semester 2: \$1,870.00
 (Refinish) Semester 1: \$1,730.00
 (Refinish) Semester 2: \$1,870.00

Required On Campus Costs:

Program Charges: \$500.00 (each semester)
 Student ID: \$10.00 (each year)
 CTSO Charge: \$20.00 (each year)
 Mask Fitting Fee: \$30.00 (semester 1)

Estimated Total:

Professional Collision Repair Technician Certificate:
 \$9,430.00 (+tax)

Additional Relevant Costs (estimated)

Required Off Campus Costs:

Gloves: \$20.00 (plus tax)
 Leather work boots with weather resistant sole: \$150.00 (plus tax)
 Safety Glasses: \$10.00 (plus tax)
 Coveralls or work shirt: \$50.00 (plus tax)

Optional Costs:

I-CAR Pro Level 1 Certificate: \$100.00

Credits:
 51

Length:
 2 years

Cost:
 \$9,430



Cost and information revised **November 2022**
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COLLISION REPAIR TECHNOLOGY

Courses required for this certificate:

ACT 1001 Intro to Automotive Collision Technology

Designed as an orientation to the automotive collision repair industry. Students receive an overview of job possibilities as well as learn various types of automobile construction. Names, uses and maintenance procedures for a variety of tools and equipment are covered. Focuses on general collision repair and refinishing shop safety procedures with an emphasis on personal and environmental safety issues. Students also learn the proper handling and disposal of hazardous materials.

ACT 1011 Metal Welding and Cutting I

Covers sheet metal oxygen-acetylene welding and MIG welding techniques including safety, materials, equipment and setups. Personal and vehicle protective measures prior to welding procedures is presented.

ACT 1021 Non-Structural Repair Preparation

This course covers the basic characteristics of preparation for automotive repair. Students familiarize themselves with damage analysis, extent of damage and the sequence of repair. It focuses on removal of vehicle components and protection of panels along with storage and labeling of parts. Safety procedures and equipment use are included.

ACT 1022 Panel Repair & Replacements

Covers straightening techniques including tension pulls/stress relief, metal finishing, metal shrinking and use of fillers. Emphasizes the identification, handling and replacement of parts such as adjustment and alignment of bolt-on parts, fixed parts and accessories. Training covers the use of adhesives, sound deadeners and welding methods performed during repairs.

ACT 1023 Metal Finishing And Body Filling

Covers metal finishing, metal shrinking and the use of cosmetic fillers. Emphasis is placed on the use of proper tools required to perform these tasks, including use, selection and safety procedures for tools and equipment selected.

ACT 1024 Replace Weld-on Exterior Panel

Covers the replacement of welded-on exterior panels such as quarters, roofs, cab panels, side panels, etc. Emphasis is placed on the use of proper tools required to perform these tasks, including use, selection, and safety procedures for tools and equipment selected.

ACT 1041 Refinishing Safety

This course covers correct use of safety procedures used in refinishing. Proper fit and use of various types of protective equipment is emphasized. The identification of tools and equipment, with use and maintenance is covered including national guidelines for proper disposal and handling of hazardous materials.

ACT 1042 Surface Preparation I

This course covers surface preparation for refinishing including cleaning, sanding, feather edging, chemical treatment of bare materials and priming. The application of primers, including rationale and use is covered. In addition the student learns skills for proper removal and storage of exterior trim and protection of adjacent panels.

ACT 1043 Spray Equipment Operation

This course covers inspection, cleaning and determination of the condition of spray guns and related equipment. Students learn skills for adjusting spray guns by setting-up and testing spray gun operations.

ACT 1044 Refinishing I

Provides the knowledge needed for application and use of automotive paint systems. Course includes locating color codes, mixing formulas, matching and selections of materials. Proper paint gun use and adjustments is taught for the product being applied. In addition, the student practices correct masking and detailing techniques.

ACT 1051 Plastics & Adhesives I

Designed to teach the state-of-the-art repair for both rigid and flexible plastic components and choosing adhesives using the latest manufacturer's repair techniques.

ACT 1070 Automotive Collision Technology Lab Experiences I

This course is designed to prepare the student to perform basic tasks or a specialized area in a controlled instructional lab.

ACT 1071 Auto Collision Tech Lab II

Course is a continuation of Lab experience. Designed to prepare the individual to perform basic tasks for a specialized area in a controlled instructional lab

ACT 2011 Metal Welding And Cutting II

This course covers MIG welding procedures of seam weld, stitch welds and destructive testing. Resistance spot welding, which includes two-sided spot weld, plasma cutting, safety, materials, and equipment and operating procedures, with emphasis on shop safety are also presented.

ACT 2021 Movable Glass And Hardware

This course covers door glass, vent windows and glass mechanisms (both electric and mechanical) with emphasis on removal and replacement. In addition, interior trim panels, seats and headliners are removed and replaced. Student learns proper care and treatment of vehicle seat protectors plus the proper use of tools required to perform these tasks.

ACT 2041 Paint Defects

This course covers paint defects. Emphasizes the causes of paint defects with methods to cure problems during and after refinishing procedures. Students learn to identify the proper surface preparations to apply prior to refinishing. Training includes using paint equipment and determining paint film thickness with proper temperatures for refinishing.

ACT 2042 Surface Preparation II

This course emphasizes surface preparation for refinishing including cleaning, sanding, feather edging, chemical treatment of bare metals and priming. The application of primers, including why and where to use them is covered.

ACT 2043 Refinishing II

This course emphasizes surface preparation for refinishing including cleaning, sanding, feather edging, chemical treatment of bare metals and priming. The application of primers, including why and where to use them is covered in this course.

ACT 2044 Final Detail

This course focuses on the detailing procedures in paint refinishing of vehicles. Methods and techniques are specialized to enhance painting skills. Transfers and tapes methods with decals etc. are demonstrated.

PROFESSIONAL COLLISION REPAIR TECHNICIAN CERTIFICATE

Certificate Total: Clock Hours: 1045 Credit Hours: 51

Certificate Length: 4 semesters