



# NON-STRUCTURAL REPAIR TECHNICIAN

## Non-Structural Repair Technician Certification

Repair automotive vehicles bodies and straighten vehicle frames

The Non-Structural Repair Technician program prepares individuals to apply technical skills to non-structural analysis and repair. This includes damage analysis, estimating, sequence of repairs, panel repairs, metal finishing, body fillings, basic welding, and interior installation. The program duplicates a repair shop environment where work is performed on customer vehicles. This course uses the I-CAR Advance Tech Curriculum.

### Suggested educational levels:

- English literacy (reading, writing, speaking, and listening)
- Understanding of basic algebra
- Basic knowledge of physics and chemistry

### 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.
- Program is 2 semesters in length, with start dates in Fall

## Tuition and Credit Hour Calculation

### Semester 1

\$1,781.00 (Tuition)  
 + \$180.00 (Credit Hour Fee)  
 \$1,961.00

### Semester 2

\$1,781.00 (Tuition)  
 + \$180.00 (Credit Hour Fee)  
 \$1,961.00

*Based on Colorado Resident In-State Tuition*

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

### Tuition and Credit Hour Fees:

**Semester 1:** \$1,961.00  
**Semester 2:** \$1,961.00

### 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:**  
 \$4,982.00 (+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:**  
26

**Length:**  
1 year

**Cost:**  
\$4,982



Cost and information revised **March 2024**  
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# NON-STRUCTURAL REPAIR TECHNICIAN

## Courses required for this certificate: Semester 1

**ACT 1001 Intro to Automotive Collision Technology** 4  
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 1021 Non-Structural Repair Preparation** 3  
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** 3  
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** 3  
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.

## Courses required for this certificate: Semester 2

**ACT 1011 Metal Welding and Cutting I** 3  
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 1024 Replace Weld-on Exterior Panel** 3  
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 1051 Plastics & Adhesives I** 1  
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** 2  
This course is designed to prepare the student to perform basic tasks or a specialized area in a controlled instructional lab.

**ACT 2011 Metal Welding And Cutting II** 2  
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** 2  
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.

## NON-STRUCTURAL REPAIR TECHNICIAN CERTIFICATE

**Certificate Total:** Clock Hours: 600 Credit Hours: 26

**Certificate Length:** 2 semesters

Additional costs may apply. All books, kits & supply costs are estimated. Cost, information, and classes are subject to change. Statistics present are based on the US Bureau of Labor Statistics. This certificate is eligible for Financial Aid. You may begin the Financial Aid process by completing your Free Application for Federal Aid (FAFSA) at [www.FAFSA.ed.gov](http://www.FAFSA.ed.gov). If you have further questions, please call (303)344-4910.