

# COLLISION REPAIR TECHNOLOGY

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The work of the collision repair technician consists of those jobs that require knowledge of automotive construction and a relatively high degree of manual dexterity. Collision repair technicians fix vehicle bodies when they have been damaged. Paint and body work is a skilled art. Surface preparation is the most important step of any body repair project. Body filler, sanding, priming, cleaning, and more help create the perfect surface for paint.

Students enrolled in this program will become skilled in frame alignment, dent removal, replacing damaged parts, color matching, painting, and principles of custom painting. Students will receive instruction in solvent-based paints and in the implementation of green technology with water-borne paints.

Our program will teach you how to diagnose body damage, prescribe a plan for correcting that damage and then restore the vehicle to meet industry standards.

While collision repair is the main focus of this program, computer technology also plays an important role. In the shop, you'll use software that estimates collision damage, matches paint colors for mixing and helps you manage inventory. You may gain in-depth instruction in this software during your collision repair program, but having sufficient computer proficiency beforehand can allow you to gain a better grasp of this complex technology during the learning process. You may benefit from taking a fundamental computer operation course early on in your education.

Employers usually favor technicians who've completed a postsecondary program. In fact, employers often send their own technicians back to school to advance their educations.

The Collision Repair Technology program currently holds certification from the National Automotive Technicians Education Foundation (NATEF) in painting and refinishing.

Each student will be required to furnish their own tools as approved by the instructor.

## Programs

- Collision Repair Technology, Associate of Applied Science (<https://catalog.atu.edu/ozark/programs/collision-repair-technology/collision-repair-technology-aas/>)
- Collision Repair Technology, Technical Certificate (<https://catalog.atu.edu/ozark/programs/collision-repair-technology/collision-repair-technology-tc/>)

## Courses

### CRT 1103 Automotive Welding

Students will receive instruction on how to properly weld and cut on automobiles with the use of mig welders and plasma cutters. Ozark CTE General Technology

### CRT 1114 Metal Repair I

The straightening, alignment, and fitting of major panels are taught. Procedures necessary to weld, heat, cut, and shape are taught. Emphasis in this course is on theory and practical application. CTE General Technology

### CRT 1124 Painting I

This course includes skills and technical knowledge in the preparation of metal for paint; chemical stripping of old finishes; use and maintenance of spray painting equipment; mixing and spraying of all types of automotive finishes; and identification of common materials used. This course is designated as "green". Ozark CTE General Technology

### CRT 1134 Color Matching I

A continuation of painting with emphasis on spraying techniques and tinting of paints to achieve color match. This course is designated as "green". Ozark CTE General Technology

### CRT 1214 Metal Repair II

Prerequisite: CRT 1114.

A continuation of CRT 1114 with advanced straightening techniques with the application of body fillers being taught. Ozark CTE General Technology

### CRT 1224 Painting II

Prerequisite: CRT 1124.

A continuation of CRT 1124. This course includes skills and technical knowledge in the preparation and application of automotive finishes. This course is designated as "green". Ozark CTE General Technology

### CRT 1234 Color Matching II

Prerequisite: CRT 1134.

A continuation of CRT 1134. Develop advanced color match techniques. This course is designated as "Green". Ozark CTE General Technology

### CRT 1322 Detailing

Students will receive instruction on how to properly clean and buff all visible exterior and interior surfaces of a vehicle. Ozark CTE General Technology

### CRT 1332 Cost Analysis in Collision Repair

Students will receive instruction in the preparation of an estimate, calculating the cost of parts, materials, and labor required to repair a collision damaged vehicle. Ozark CTE General Technology

### CRT 1342 Collision Repair Technology Employment Certification

This course teaches knowledge necessary in the job search process, including interview, presentation, expectation, and maintaining the job. Students will learn the importance of obtaining national certification and proper skills and knowledge of taking ASE style tests. Ozark CTE General Technology

### CRT 2114 Metal Repair III

Prerequisite: CRT 1214.

A continuation of CRT 1214 with advanced metal straightening, replacing non-structural panels and the basis of uni-body and frame straightening techniques being taught. Ozark CTE General Technology

### CRT 2124 Custom Painting

Students will receive instruction on the application of automotive paints and properly preparing the surface for custom painting. Ozark CTE General Technology

**CRT 2134 Collision Repair Technology Mechanical and Electrical**

This course teaches the knowledge and skills necessary to repair and understand automotive electronics, brakes, chassis and steering, and climate control. Ozark CTE General Technology