

# SkillsUSA Maryland State Championship

## 2025 Collision Repair Technology Contest Update

February 20, 2025

Dear Instructors and Student Competitors:

This letter addresses the information student competitors will need to know for the SkillsUSA Maryland Collision Repair Technology (CRT) state competition.

On Saturday, March 29, 2025, contestants should arrive at Mudgett's Auto Body promptly at 8:00 a.m. for orientation (Mudgett's is located at 2960 Dede Rd Finksburg, MD 21048). For students not taking the shuttle from Carroll CTC there will be staff to assist with parking. You will be given an overall explanation of the areas of the CRT competition and given an itinerary for the day.

There will be four competition areas, including: Welding, Frame Analysis, Metal Repair, and Plastic Repair. Each competitor will receive a number that matches a numbered square in the collision repair area to put their toolboxes and equipment.

***Important: after the competition begins there is to be no communication between the competitors and the visitors in the contest areas, as this may cause disqualification of the competitor. Please be mindful that this event is held at a private working body shop. There will be designated areas for contestants as well as parents, family and friends. If you leave your designated areas or attempt to communicate with the students during the contest you may be asked to leave the property and the student will be disqualified.***

Please see the underlined/italicized portions below and in each segment as this identifies what tools the students need to bring. Each competitor will need a 1/4 A-style male air fitting, and enough fittings for each tool they are bringing. All body materials and other consumables will be provided. For metal repairs, students will be using Fastline Fast Gold FF501 and Fast Flo Glaze FG530. For plastic repairs, students will be using 3M Duramix Super Fast 3M04247 and 3M Flexible Parts Repair 3M05887. All sandpaper will be Fastline series 6" hook-it paper.

**Welding Segment** the contestant will weld three types of joints in the vertical and overhead positions on welding coupons. The three types of joints are: Lap weld, Plug weld, and a Butt Joint with Backing. The welds will be preformed on 18ga coated mild steel coupons. The welds will be judged by the I-CAR Welding Qualification Test (WQT) Standards. Each competitor will get one set of practice coupons. Each contestant must bring safety glasses, leather or fireproof fabric welding jacket,

welding helmet, skull cap, welding gloves, welding respirator, vice grips, wire cutters, black permanent marker, and a 12" ruler.

**Frame Analysis Segment** the contestant will identify two or more types of damage to a unibody vehicle, set-up gauges on a frame and will have a written exam. Each contestant must bring safety glasses, measuring tape, pencil, calculator, clipboard, and a scratch pad.

**Metal Repair Segment** the contestant will repair a damaged sheet metal panel by metal working one damaged area and using plastic filler on one damaged area. Each contestant must bring Safety glasses, a respirator, grinder, DA sander, sanding blocks, sanding boards, dollies, pick hammers, mixing board, plastic spreader, and a cheese grater is optional. The competitors may bring any other tools or equipment they feel may be needed to complete the repairs.

**Plastic Repair Segment** the contestant will repair a tear and a tab in a urethane bumper cover. Each contestant must bring safety glasses, respirator, plastic spreader, mixing board sanding blocks, DA sander 6", other tools and equipment optional.

The competitors will be divided into groups of 3. They will start in one of the 4 areas within the competition and rotate through each area. Each segment will last 1 hour 15 minutes, with 5 minutes between segments to get their materials for the next segment. The contestants will have 30 minutes for lunch. If a contestant finishes their segment early, they will need to go to their assigned square in the Collision Repair Area.

If there are any questions concerning the competition, please feel free to contact me between the hours of 8:00 a.m. and 4:00 p.m. Monday through Friday. My number is: 410-833-5030 or email at [mudgettmanagement@gmail.com](mailto:mudgettmanagement@gmail.com)

Sincerely,

Justin Mudgett

Collision Repair Technology Contest Chair