

SkillsUSA Maryland / 2024 State Championship

Collision Repair Technology Contest Update (4/2/24)

Dear Students and Instructors:

This letter will contain the information you and the competitors will need to know on the day of the SkillsUSA Maryland competition.

On **Saturday April 13th, 2024**, contestants are to report to Mudgett's Auto Body promptly at 8:00 am for orientation. Mudgett's is located at 2960 Dede Rd Finksburg, MD 21048. There will be staff to assist you in parking. You will be given an overall explanation of the areas of the Collision Repair Technology Competition and given an itinerary for the day.

There are four areas that the competitors will compete in, and they are: Welding, Frame Analysis, Metal Repair, and Plastic Repair. Each competitor will receive a number and they will have a number square in the collision repair area to put their toolboxes and equipment.

After the competition begins there is to be no communication between the competitors and the visitors in the contest areas, this may cause disqualification of the competitor. Please bear in mind 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.

Each competitor will need to bring a 1/4 A-style male air fitting, and enough fittings for each tool they are bringing. Please see the additional underlined/italicized and in **red bold** portions in each segment. This identifies the tools that students must supply. All body materials and other consumables will be provided. For metal repairs Fastline Fast Gold FF501 and Fast Flo Glaze FG530. For plastic repairs 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 performed 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 split into groups of 3. They will start in one of the 4 areas that are of 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

Sincerely,

Justin Mudgett

Collision Repair Technology Contest Chair