

SkillsUSA Maryland 2010 State Championship

Collision Repair Technology (CRT) Contest Instructions

Dear CRT Instructors:

This letter contains the information you and the competitors will need to know on the day of the SkillsUSA Maryland 2010 CRT state competition.

On Friday, March 26, CRT contestants are to report to the Collision Repair/Refinishing Department at The Center of Applied Technology North promptly at 3:00 p.m. Each competitor will be given 2 hours to complete their written testing and at 5:00 p.m. each competitor will have a 15-minute familiarization in each area of the competition with each Segment leader giving an overall explanation of the areas of the Collision Repair Competition. Competitors are encouraged to bring their tools to be stored at the contest site.

The Collision Repair Technology hands-on portion of the competition will start promptly at 8:00 a.m. on Saturday, March 27, 2010. All competitors will report to the Collision Repair Area at The Center of Applied Technology North.

There are six areas that the competitors will compete in: (1)Welding, (2)Frame Analysis, (3)Metal Repair, (4)Estimating, (5)Collision Knowledge Test, and (6)Plastic Repair. The Collision Knowledge Test and Estimating will be completed on Friday, March 26 before orientation. 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 area, this will cause the competitor to be disqualified.

Each competitor will need a Milton short shank adapter (M-Style #727 or #728), and enough fittings for each tool they are bringing. Each competitor will be evaluated in each of the segment areas.

During the Estimating segment the contestant will need to prepare a damage report using a Crash Estimating Guide. They will be tested on their knowledge and application procedures found in a nationally recognized collision estimating and reference guide. Each contestant must bring a clipboard and a calculator.

During the 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, respirator, grinder, DA sander, sanding blocks, sanding boards, dollies, pick hammers, mixing board, plastic spreader, and a cheese grater is optional. The competitor s may bring any other tools or equipment they feel may be needed to complete the repairs.

During the 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.

During the 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.

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

During the Collision Knowledge Test Segment the contestant will answer a 50-question test on collision repair theory. Each competitor must bring a number 2-pencil to fill in the scantron sheet and a calculator.

The competitors will be split into groups of 2 or 3 depending on the number of contestants. 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 8:30 a.m. and 4:00 p.m. Monday through Friday. My number is: 703-669-6610.

Sincerely,

Teresa A. Bolton
Collision Repair Technology Contest Chair
cc: Chuck Wallace