



## Collision Repair Technology

### 2024 SkillsUSA Michigan State Championships Contest Description Task and Material List

#### CONTEST LOCATION:

Gerber Collision

#### RESUME:

Each student must submit a one-page printed resume before the contest start at the contest site (present to contest coordinator, not judges). The resume is no longer submitted online. This is the only time that resumes can be turned in. Failure to do so will result in a 10 point penalty.

#### Tasks that may be performed:

- Use of safety practices
- Proper use of tools
- MIG welding - Vertical
- Use of filling materials
- Surface preparation
- Metal finishing
- Plastic repair/tab repair (3M products only)
- Cross measuring hood and/or trunk opening along with other measurements using Chief Simulator (or on the vehicle)
- Written test (technical and SkillsUSA professional development)
- ASE structural and Non-structural test
- STRSW test
- Squeeze type resistance welding test

#### Students Must Supply:

- 1 Page Resume
- #2 pencil / Calculator
- Safety glasses with side shields
- All types of abrasives for task to be performed
- Work uniforms and/or coveralls (**Long sleeve work shirt required**)
- Leather or leather type work shoes (**NO ATHLETIC SHOES**)
- Dolly blocks Spoons
- Air hose w/various fittings (Milton A-Style)
- Welding Fume respirator Charcoal respirator (NIOSH Approved)
- Body hammers
- Body files
- Rubber sanding block
- 3M Plastic Repair gun

- Plastic sanding block
- 1 half round stanley blade (Cheese Grater)
- OSHA approve Air blow gun
- Putty knife
- 1 set plastic applicators/ spreaders
- 1 plastic mixing board
- 1 pistol grip grinder w/2 or 3 inch discs
- 1 metal grinder
- D. A. Sander
- Clamps are required to secure materials while working on them
- Rubber gloves (latex), leather gloves (for welding)

### **Important Notes:**

- All consumables abrasives need to be supplied by the home school. Refinish coatings, masking materials, welding coupons, body and plastic filler products will be supplied for the contest.
- The plastic contest will be using 3M brand plastic repair material. This is to maintain alignment between the state and national event.
- Gerber Collision is using Lincoln Electric SP140 welders with .023 wire for the welding contest.
- I-CAR steel will be used for the welding contest.
- Gerber Collision uses high flow airflow fittings (H style) in the paint area DeVilbiss #240147 and Milton A style 777 in the non-paint portion of the Lab.
- Tram gauge should be supplied by the school. There will be one for use if the school does not have one.
- Please look at proper work attire on the Skills site for all participants. No visible identifiers or labels are allowed on clothing.

Revised 1/23/2024

# SCORECARD Collision Repair Technology

Contestant Number

Items Evaluated	Possible Points								
<b>Panel Repair</b>	<b>280</b>								
<b>Welding</b>	<b>280</b>								
<b>Plastic/Tab Repair</b>	<b>280</b>								
<b>ASE Test/Tram Measuring</b>	<b>160</b>								
<b>Résumé Penalty</b>	<b>0 or -10 only</b>								
<b>Total Possible Points</b>	<b>1000</b>								

**Date:**

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**Judges' Signatures:**

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# SCORECARD Collision Repair Technology

Contestant Number

Items Evaluated	Possible Points								
Panel Repair	250								
Welding	250								
Plastic Repair	250								
Collision Estimating	250								
Résumé Penalty	0 or -50 only								
Total Possible Points	1000								

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