



Revised 1/13

# Collision Repair Technology



<b>Date</b>	Feb 9 <sup>th</sup> 2024	<b>Orientation Time</b>	8:00 AM
<b>Location</b>	Schottmillers Auto Body 11478 Reading Rd Cincinnati, OH 45241	<b>Contest Time</b>	Immediately following orientation
<b>Scope of Contest</b>	Competitors will demonstrate their ability to perform jobs and skills based on the task list outlined by I-CAR, ASE and the ASE Education Foundation. The competition includes a series of workstations to assess skills in the following areas: metal straightening, attachment methods, plastic repair and structural analysis. The overall appearance of the finished product, ability to follow published procedures, and proper safety practices will be judged.		
<b>Testing</b>	Yes		
<b>Eligibility</b>	2 competitors per school		
<b>Clothing</b>	<ul style="list-style-type: none"> <li>• Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants).</li> <li>• Leather work shoes or boots with a hard sole or anti-slip properties.</li> <li>• Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.</li> </ul>		
<b>Provided by Contestant</b>	<ul style="list-style-type: none"> <li>• Professional Resume – must be typed and physically produced as a hard copy</li> <li>• Emergency Medical Form (Contestants must have this to compete)</li> <li>• Verification of Tool Training and Safety (See form on SkillsOhio Web site)</li> <li>• Safety glasses with side shields (prescription glasses must have side shields or be covered with goggles), Face shield</li> <li>• Welding gloves, work gloves, welding helmet (grade 10 or higher), welding respirator, welding jacket</li> <li>• Nitrile or rubber gloves for handling body fillers and various cleaning products</li> <li>• Air fitting- Milton A style fitting</li> <li>• Air hose, 25 feet</li> <li>• Grinder with disk</li> <li>• Side cutters, pliers, locking pliers (2 pair for welding)</li> <li>• Metal finishing tools (body hammers, dollies, etc.)</li> <li>• Sanding blocks (w/ sand paper)</li> <li>• Dual action sander (w/ sand paper)</li> <li>• Grinder (with grinding discs)</li> <li>• Belt grinder</li> <li>• Appropriate sand paper and disks</li> <li>• Air file</li> <li>• Blow gun</li> <li>• Performance Manual Applicator Gun for plastic repair</li> <li>• Body Filler Board</li> </ul>		

	<ul style="list-style-type: none"> <li>• Contestants may use any tools appropriate for dent repair (bulls eye pick, body picks, glue pulling tools, leverage bar)</li> <li>• Vise grips (at least two pair)</li> <li>• Dollies</li> <li>• Clipboard</li> <li>• Two #2 pencils, sharpened</li> <li>• Calculator</li> <li>• <b>Instructors/Students are required to bring materials and PPE to complete repairs.</b></li> <li>• <b>Skills USA will not supply sandpaper for the competition.</b></li> </ul> <p><b>Equipment &amp; Materials Supplied by Technical Committee/Host Site</b></p> <ul style="list-style-type: none"> <li>• <b>Metalworking/Body Work</b> <ul style="list-style-type: none"> <li>• Fenders</li> <li>• Body filler with hardener</li> <li>• Basic shop equipment</li> <li>• Panel stands</li> </ul> </li> <li>• <b>Welding</b> <ul style="list-style-type: none"> <li>• 4 Miller Millermatic 141 welders</li> <li>• Welding coupons</li> </ul> </li> <li>• <b>Plastic Repair – Two-Sided Bumper Repair</b> <ul style="list-style-type: none"> <li>• Piece of a semi rigid plastic bumper with a gouge</li> <li>• Plastic Repair Material</li> <li>• 3M™ Performance Manual Applicator Gun</li> </ul> </li> </ul>	
<p><b>Contest Standards</b></p>	<p><b>Contest Skilled Performance Standards</b></p> <p><b>CRT 1.0</b> - Repair depressed area(s) on a steel panel with hammer and dolly techniques and body filler</p> <p><b>CRT 3.0</b> - Repair depressed areas using metal finishing techniques on a steel panel</p> <p><b>CRT 5.0</b> - Prepare steel panel for primer</p> <p><b>CRT 6.0</b> — Demonstrate the understanding and skills necessary for attachment methods needed for collision repair of steel and aluminum panels</p> <p><b>CRT 7.0</b> - Complete a two-sided repair on a plastic vehicle part. Mix and apply appropriate plastic repair material following product maker procedures</p> <p><b>CRT 23.0</b> - Demonstrate interview skills</p>	<p><b>Aligned ODE Transportation Career Field Technical Standard Outcomes</b></p> <p><b>Outcome 6.5</b> Surface Preparation</p> <p><b>Outcome 6.5</b> Surface Preparation</p> <p><b>Outcome 6.5</b> Surface Preparation</p> <p><b>Outcome 6.3</b> Joining and Cutting Metals</p> <p><b>Outcome 6.4</b> Plastics and Adhesives</p> <p>Above Outcomes can be found in the following ODE courses:</p>

		177010 Collision Non-Structural 177023 Collision Painting and Refinishing
--	--	--