



# Collision Repair Technology



<b>Date</b>	January 22, 2025 SNOW DATE: January 29, 2025	<b>Orientation Time</b>	8:00 AM
<b>Location</b>	Schottmiller's 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>	Clothing Classification Guide – CLASS D		
<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> <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> </ul>		

	<ul style="list-style-type: none"> <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 ODEW 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 ODEW courses:  177010 Collision Non-Structural  177023 Collision Painting and Refinishing</p>