

ELIGIBILITY

Open to active SkillsUSA members enrolled in programs with automotive collision technology as the occupational objective.

CLOTHING REQUIREMENTS

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

NOTE: At the district level if a student is not able to wear the official SkillsUSA attire he/she may wear an outfit that would be acceptable in their specific field of study. Please keep in mind that official SkillsUSA attire will be required at the state and national level.

EQUIPMENT AND MATERIALS SUPPLIED BY HOST

- 1. Materials for metalworking phase:
 - 1. Identical fender panels to be repaired
 - 2. Plastic filler
 - 3. Various grits of sandpaper/grinding discs for sanding blocks (must have backing plate)
 - 4. Basic tram gage and tape measure for under hood measurements
 - 5. Miller 135, Mille 141, Miller 180 and Miller 252 Auto MIG welders set up with .023 wire
 - 6. Cleaning materials and wipes

Note: The air fittings used at WMCTC Collision Repair Shop are Milton 777 (M) and 778 (F) air fittings.

EQUIPMENT AND MATERIALS SUPPLIED BY CONTESTANT Students who do not bring and wear their personal protective equipment (safety glasses, respirator, work shoes, shirt or pants) WILL NOT be allowed to participate.

- 1. All students must have a one-page, typewritten resume
- 2. Proof of Training signed
- 3. Safety glasses with side shields
- 4. Dust respirator
- 5. Body files
- 6. Dollies
- 7. Various metal finishing hammers
- 8. 6" DA sander (Stickit paper pads)
- 9. Grinder
- 10. Sticky back or velcro D/A pad
- 11. Sticky back DA pad
- 12. DA pad wrench
- 13. Sanding pads
- 14. Welding gloves



- 15. Welding jacket
- 16. Welding respirator
- 17. Welding helmet
- 18. Tape measure
- 19. Optional—tram gage/digital tram gage

SCOPE OF THE CONTEST - (DEFINED BY THE NATIONAL COMPETITION REGULATIONS)

(District Competitions are meant to be a scaled down version of National Competition. It is important for the students to participate in a competition that will reflect a cross-section of the industry skills needed to prepare them for the state and national levels)

The contest is defined by industry standards as set by the current industry technical standards.

The contest is divided into three portions: a written ASE exam, an interview, and a series of workstations. Contestants will demonstrate their ability to perform tasks selected from the following list of competencies.

<u>Standards and Competencies</u> – (Summary of national technical standards list)

- 1. Repair depressed area(s) on a steel panel with plastic body filler
- 2. Repair depressed area using shrinking techniques on a steel panel
- 3. Repair depressed areas using metal finishing techniques on a steel panel to related tasks
- 4. Prepare steel panel for primer application to related tasks
- 5. Demonstrate welding skills needed for collision repair of steel panels
- 6. Complete surface preparation for painting and refinishing
- 7. Mix and apply repair material
- 8. Perform block and featheredge
- 9. Measure and analyze structural, steering and suspension misalignment of a unitized body vehicle
- 10. Oral Assessment/Interview
- 11. Maintain professional conduct
- 12. Maintain professional appearance
- 13. Complete job application and resume
- 14. Demonstrate interview skills

KNOWLEDGE PERFORMANCE

The contest will include a 20-question ASE written exam assessing knowledge of Structural and Non - Structural Analysis.

SKILLS PERFORMANCE

The contest includes a series of workstations and an interview process designed to assess skills in the following areas: metalwork, welding, and structural analysis. The overall appearance of the finished product, speed and proper safety practices will be judged.



Contest Guidelines

- 1. Metal Repair
- 2. Welding
- 3. Structural Analysis
- 4. Oral Assessment
- 5. Written Exam (ASE)



Collision Repair Scoring Sheet			
Items evaluated	Possible points	Contestant score	
Metal Finishing	-		
Proper cleaning procedures	15		
Safety while cleaning	15		
Selection of straightening tools	15		
Proper technique for metal work	15		
Safety while metal working	15		
Proper selection and application of fillers	15		
Proper shaping and sanding of fillers	15		
Safety procedures while working with fillers	15		
Demo feather edging procedures	15		
Safety procedures while feather edging	15		
Quality of product	15		
	Subtotal = 165		
Welding Procedures	_		
Set-up and tuning of Welder	15		
Proper gas settings	15		
Proper lap joint	15		
Proper butt weld with backer	15		
Proper plug weld	15		





Proper safety procedures, clothing, gloves, glasses, respirator	15	
Overall appearance of product	15	
	Subtotal = 105	
Measurement Procedures	_	
Length measurement	15	
Width measurement	15	
Diagonal measurement	15	
Wheelbase measurement	15	
Safety related to procedure	15	
	Subtotal = 75	
Interview	_	
Knowledgeable answers during interview	15	
Appearance is trade appropriate	15	
Voice clear/understandable	15	
	Subtotal = 45	
Written Test	20	
	TOTAL = 410	
Clothing Penalty	Deduction -10	
No resume	Deduction -10	
	TOTAL	
Note: No cell phones or other electronic device	1 1	1

Note: No cell phones or other electronic devices may be used at any time during a competition; this includes using a calculator function on a cell phone for competitions in which calculators are permitted.

Note:Scorecards should only be used as guidance. Changes may occur.