SkillsUSA District 8 Competition



Automotive Refinishing Technology Contest

Purpose

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of automotive refinishing

Clothing Requirements

- 1. All department and school names must be removed prior to the competition.
- 2. Work uniforms
- 3. Leather work shoes (Leather or canvas tennis shoes are not acceptable.)
- Clear-lens goggles or safety glasses with side shields (Prescription glasses can be used only if they are equipped with side shields. Otherwise, they must be covered with goggles.)

Eligibility

Open to active SkillsUSA members who are enrolled in programs with automotive refinishing technology as the occupational objective

Equipment and Materials

- 1. Supplied to contestant:
 - a. Various grits of sandpaper
 - b. Scuff pads
 - c. Paint Solvent Based Paint
 - d. Paint sticks/ strainer
 - e. Reducer
 - f. Primer
 - g. Clear coat Solvent Based
 - h. Sanding buckets
 - i. Masking tape and paper
 - j. Razor blades
 - k. Cleaning towels
 - 1. Tack cloths
 - m. Product information sheets
 - n. Gloves
 - o. Solvent cleaner
 - p. Blow gun
 - q. Fresh-air supplied respirator

2. Supplied by contestant:

- a. 6-inch DA sander
- b. Cartridge-type respirator (charcoal-filtered)
- c. Spray gun
- d. Paint suit
- e. Hook-it DA pad
- f. Air pressure gauge
- g. Sanding pads
- h. Sanding blocks
- i. Squeegees
- Other equipment at the contestants discretion

Contest Specifications

The contest reflects current industry technical standards and is divided into three task sets:

- Task No. 1: A spot repair on a panel including featheredging, priming, blocking, and refinishing
- Task No. 2: Masking a vehicle per a work order

Task No. 1: Spot Repair

- 1. Repair paint damage; mix and apply bare-metal primer to a damaged fender.

 A front fender will be affixed to a stand. There will be a 4-inch scratch on the fender. The contestant is to prepare the damaged area to receive a surfacer primer.
- 2. Apply primer surfacer and sand.
 Using the same fender, the contestant should mix and then apply a primer surfacer to the damaged area. When the panel is dry, the contestant sands the surface until the area is ready to seal.
- 3. Apply primer sealer.

 The contestant then mixes and applies the primer sealer to the damaged area.
- 4. Apply basecoat.

The contestant will prepare and apply basecoat to the damaged area, blending it out far enough to create an invisible repair, without painting the entire fender.

NOTE: The basecoat for this contest will be a solvent-borne product.

5. Apply clear coat.
The contestant then mixes and applies clear coat to the entire fender.

Task No. 2: Masking

1. Mask a vehicle for a refinish repair using a repair order as a guide.

Using a mock repair order that outlines damage on a vehicle, the contestant is to envision how they would repair and paint the vehicle and then mask it accordingly. The repair will consist of a two-panel repair that includes a blend onto the second panel.

AUTOMOTIVE REFINISHING – SCORE SHEET

						***************************************		Cor	itestar	its			
	nder Prep an and Sand)	Value	1	2	3	4	5	6	7	8	9	10	11
1	Used safety glasses or goggles	1111											
Safety	Used dust mask or respirator	1		***************************************									
91	Used gloves when handling solvents	Yww											
Prep	Washed with soapy water and rinsed	1											
Pr	Properly wiped with wax and grease remover	2											
Sanding	Scratch is sanded with appropriate grit	2											
Sano	Proper featheredge technique applied	3											
Scori	ng Subtotal	11											

								Con	itestar	nts			
3. Su	rfacer	Value	1	2	3	4	5	6	7	8	9	10	11
Safety	Used safety glasses and gloves	1				-							
Sa	Used respirator	1											
	Used tack rag	2											
ı,	Suitable test pattern and gun adjustment	2				and the state of t							
Application	Proper flash time between coats	2											
App	Uniform appearance; no dryness or texture	3											
No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Proper film thickness achieved	2		The state of the s		***************************************		,					
lal	No heavy scratches visible	2								***************************************			
Final	Featheredging is smooth and tapered	2											
Scori	ng Subtotal	17	- Control of Control o		-				,				_

Scori		San	ding	erene en		Safety	7	4. Sa	
Scoring Subtotal	Properly wiped with wax and grease remover	Blow off dust with compressed air	Sand blend area with appropriate grit	Sand surface with appropriate grit	Used gloves when handling solvents	Used dust mask or respirator	Used safety glasses or goggles	4. Sand and Blend Prep	
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								Con	testar	its							
5. Sp	oot Seal and Base	Value	1	2	3	4	5	6	7	8	9	10	11				
Safety	Used safety glasses and gloves	1															
ದ	Used respirator	1										_					
	Used tack rag	2															
	Suitable test pattern and gun adjustment	1															
Popular	Smooth and level with no dryness or texture	2				11											
的	Kept scaler to repair area	2															
	Proper film thickness achieved	1															
	Proper flash prior to basecoat application	2															
Ļ	Suitable rest pattern and gun adjustment	2															
Baseco at	Uniform appearance; no dryness or texture	2															
ase	Kept basecoat to repair area	2															
M	Hiding achieved (use sun gun)	2															
	Proper flash times between coats	2															
Scori	ng Subtotal	22															

								Con	testar	ıts		
6. Bas	se Blend and Clear at	Value	1	2	3	4	5	5 6 7 8 9 10 11				
Safety	Used safety glasses and gloves	1									produce a second	
S	Used respirator	1										
pua	Used tack rag	2								-	 	
Base Blend	Suitable test pattern and gun adjustment	1			-							
Bas	Kept blend contained	2	-									
	Proper flash prior to clear coat application	2										
bo	Suitable test pattern and gun adjustment	2	ermannen er der mer de freiske			and the second s						
Sanding	Uniform appearance; no dryness or texture	2										
S	Proper flash times Between coats	2								The second secon		
	Proper film thickness achieved	2								enannananan sassassas marana		
Scor	ing Subtotal	17					e debutero e eren de de antendese					

								Cor	itestai	nts			
7. Fin	nal Appearance	Value	1	2	3	4	5	6	7	8	9	10	11
	No orange peel; levelness; evenness	4											
0	No bulls-eyes	4											
Texture	No scratches	3											
Tex	No fish-eyes	2										-	
	. No runs or sags	2											
	High-gloss appearance	2											:
	No metallic flooding	2											
ch	No tiger-striping	3								•			
Match	No blotchiness, even metallic distribution	2		A second									
	Color match	2											
Scori	ing Subtotal	26						***************************************					•

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	,							Trosta				,
8. Masking		1	2.	3	4	5	6	7	8	9	10	11
	Value		And the second s	***************************************								
Applied masking tape neatly and effectively	5			- Andrews		***************************************						
Applied masking paper neatly and effectively	5			nheithill-droughauses								
Masked door jambs (aperture tape or masking tape)	5											
Applied masking materials to meet requirement or work order							-					
Scoring Subtotal	20				ļ.,							
Score Section 1	11											
	•											
Score Section 3	17											
Score Section 4	11											
Score Section 5	22											
Score Section 6	17											
Score Section 7	26											
Score Section 8	20											
Score Total	124											

