



Pennsylvania - District 2  
Education . . . with a competitive side

# AUTOMOTIVE REFINISHING COMPETITION



## **Clothing Requirements**

Official SkillsUSA light blue work shirt and navy pants, black or brown leatherwork 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.*

## **Eligibility**

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

## **Equipment and Materials: Supplied by host school:**

1. Supplied by the technical committee: Basic equipment of an automotive refinishing laboratory
2. Fender panel with 2 coats of primer sealer applied
3. Various grits of sandpaper
4. 6" DA sander pads
5. Abrasive sanding pads
6. Ultra-fine sandpaper
7. Sanding blocks
8. Wax & Grease remover
9. Cleaning towels
10. Nitrile gloves
11. Base Coat Color
12. Clear Coat
13. Paint strainers
14. PPG mixing cups
15. Wooden paint paddles
16. Tack cloths
17. ¾" & 2" Masking tape
18. Razor blades
19. Cleaning thinner

**Note:** The air fittings used at **DCTS** for Refinishing are Milton 777, 778 air fittings.

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**Equipment and Materials: Supplied by contestant:**

1. All students must have a one-page, typewritten resume
2. 6" DA sander
3. Cartridge-type respirator (charcoal filtered)
4. Spray gun (HVLP)
5. Air pressure gauge (Spray Gun)
6. Sanding pads
7. Sanding blocks
8. Students may bring any equipment they feel comfortable with using

**Students who do not bring and wear their Personal Protective Equipment (safety glasses, respirator, work shoes, work shirt and work pants) WILL NOT be allowed to participate.**

**9. Paint suit**

**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 the current industry technical standards. The contest is divided into four portions: a written ASE exam and a series of workstations. Contestants will demonstrate their abilities to perform tasks selected from the following list of competencies as determined by the SkillsUSA Championships technical committee.

**Knowledge Performance**

The contest will include a 20-question ASE style written exam on finishes, prepping, painting and safety.

**Skill Performance**

The contest includes a series of workstations are designed to assess skills in the following areas: color code locations & identification, surface preparation, spray gun operation and related equipment, paint mixing, matching and applying, solving paint application problems, finish defects, causes and cures and safety precautions.

**Contest Guidelines**

1. Prepare a primed fender for base coat/clear coat
2. Mix required solvent paint
3. Apply top coats
4. Identify vehicle paint code
5. Resume
7. Written Exam (ASE)

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<b>Items Evaluated</b>	<b>Possible Points</b>	<b>Contestant Score</b>
<b>Paint Code Location &amp; Identification</b>	<b>45</b>	
Vehicle Id code	15	
Location of Color Code on Vehicle	15	
Location of Color in Color chip book	15	
<b>Panel Preparation</b>	<b>75</b>	
Proper Abrasive for application	15	
Proper Sanding Technique	15	
Safety Procedures	15	
Proper Use of Chemicals to clean/set	15	
Proper solvent & reduction of color/clear coats	15	
<b>Refinishing/Painting Evaluation</b>	<b>120</b>	
Proper use of tack cloth prior to color application	15	
Knowledge of flash time	15	
Proper tack cloth between coats	15	
Proper application of color coats	15	
Proper application of clear coats	15	
Proper application of industry safety standards	15	
Overall appearance of product	15	
Clean up of work station and equipment	15	
<b>Resume</b>	<b>60</b>	
Present resume	15	
Resume neat/understandable	15	
Appearance is trade appropriate	15	
Voice clear/understandable	15	
<b>Written Test</b>	<b>20</b>	
<b>Total Points</b>	<b>260</b>	

**Rubric Scale**

**0 – Below Basic - The contestant has no knowledge/experience in this area;** failed to complete task; displayed an inadequate level of compliance with shop rules and work habits.

**5 – Basic – The contestant did not meet knowledge/performance criteria and/or needed significant help** to complete task; displayed an inconsistent level of compliance with shop rules and work habits

**10 – Proficient– The contestant met knowledge / performance criteria without help at least on time;** demonstrated the ability to complete some task to industry standards; consistently followed shop rules and displayed safe work habits.

**15 – Advanced – The contestant met knowledge / performance criteria without help many times;** completed all task to industry standards within industry timelines; independently displayed a high level of compliance with shop rules and displayed safe work habits.

Rubric				
WORK SKILLS				
	Below Basic	Basic	Proficient	Advanced
Task Performance	Failure to complete task	Demonstrated task completion to some degree but unable to meet industry standards	Demonstrated ability to complete task to industry standards	Demonstrated ability to complete task to industry standards within industry timelines
Safety	Displayed an inadequate level of compliance with classroom/shop rules and work habits	Displayed an inconsistent level of compliance with classroom/shop rules and work habits	Consistently followed classroom/shop rules and displayed safe work habits	Independently displayed a high level of compliance with classroom/shop rules and displayed safe work habits
Points	0	5	10	15

**Note: Judges may use their own discretion to assign points between the numerical values listed above in order to more accurately grade contestant performances.**

**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.**