Please note not all areas of national contest hands on content will be covered, but we will try to add more areas as contest site space and time limits allows in the future.

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

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

CLOTHING REQUIREMENT
Contest Specific – Mechanic
- White crew neck short-sleeved T-shirt
- Work pants or jeans,
- Leather or steel toed work shoes.
- Hair must be contained.
- Safety glasses with side shields or goggles, (Prescription glasses can be used only if they are equipped with side shields approved by OSHA(Z-87). If not, they must be covered with goggles.)

Note: Contestants must wear their official contest clothing to the contest orientation meeting. Also bring #2 pencil, resume and safety assurance form.

Equipment and Materials
1. Supplied by the technical committee: basic equipment of an automotive refinishing laboratory
   a. Various grits and styles of sandpaper
   b. Clean-up thinner
   c. Waterborne basecoat trainers
   d. Reducer
   e. Paint
   f. UV Primer surfacer
   g. Clear coats
   h. DA sanders
   i. Abrasive sanding pads
   j. Sanding blocks
   k. Paint panels
   l. Necessary masking materials
   m. Razor blades
   n. Cleaning towels
   o. Tack cloths
   p. Painter’s gloves
   q. Waterborne cleaner
   r. Sanding masks
   s. Supplied air respirators
   t. Safety glasses
   u. Paint suits
   v. Spray guns

2. Supplied by the contestant:
   a. All competitors must create a one-page résumé. Please bring two copies of your résumé to the competition.

Note: Your resume may be judged as part of your contest” Check the Contest Guidelines and/or the updates page on the NYS SkillsUSA Website:  http://www.nysskillsusa.org

Scope of the Contest
The contest will be consistent with the Collision Repair/Refinishing Technician Task list outlined in the guidelines published by the ASE Education Foundation.
www.ASEeducationfoundation.org Contestants will demonstrate their ability to perform jobs of skills selected from the standards mentioned above as determined by the SkillsUSA NY technical committee

Knowledge Performance
The contest includes a written knowledge test given by ASE, which will consist of 50 questions covering the automotive refinishing areas that are identified in the NATEF Collision Repair/Refinish. The tests for the high school and college contestants will be comprised of surface preparation; spray gun operation and related equipment; paint mixing, matching, and applying; solving paint application problems; and finish defects, causes and cures and safety precautions.

Skill Performance
The contest includes a series of workstations, an interview process designed to assess skills
in the following areas: spot repair, color tinting, featheredge, prime and block, paint id and masking. The overall appearance of the finished product, speed and proper safety practices will be judged.

**Note:** “*” Denotes this material is covered on a separate written test prior to the official contest day.

### Standards and Competencies

#### Spot Repair

ART 1.0 — Prepare a panel surface for a basecoat blend in relationship to the tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE test)

1.1 Demonstrate proper safety procedures
1.2 Clean the entire area of panel being repaired; use appropriate cleaner to remove contaminants (we must use waterborne cleaner only due to fumes in the competition area)
1.3 Dry sand areas to be finished.
1.4 Featheredge damaged areas to be finished, sand remaining panel areas to no gloss.
1.5 Clean area to be refinished using a final cleaning solution
1.6 Remove dust from the area to be refinished, including cracks or moldings of adjacent areas
1.7 Remove, with a tack rag, any dust or lint particles from the area to be refinished

ART 2.0 — Prepare a panel surface for clearcoat application (full panel) in relationship to the tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE test)

2.1 Demonstrate proper safety procedures
2.2 Dry sand the areas to be refinished
2.3 Clean the area to be refinished using a final cleaning solution
2.4 Remove dust from area to be refinished, including cracks or moldings of adjacent areas
2.5 Remove, with a tack rag, any dust or lint particles from the area to be refinished

ART 3.0 — Prepare a panel surface for basecoat spot repair application in relationship to the tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

3.1 Demonstrate proper safety procedures
3.2 Remove, with a tack rag, any dust or lint particles from the area to be refinished
3.3 Apply clear blender if applicable to prevent metallic halo
3.4 Check and adjust spray gun operation
3.5 Apply finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed and spray pattern overlap) for the finish being applied
3.6 Apply basecoat for panel blending or partial refinishing

ART 4.0 — Prepare a panel surface for full panel clearcoat application in relationship to the tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

4.1 Demonstrate proper safety procedures
4.2 Remove, with a tack rag, any dust or lint particles from the area to be refinished
4.3 Check and adjust spray gun operation
4.4 Apply clearcoat finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed and spray pattern overlap of 75-90%) for the finish being applied

#### Color Tinting

ART 5.0 — Complete color assessment in relationship to the tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

5.1 Determine the type of mismatch problem encountered while evaluating the color sample
5.2 Determine adjustment that must be made to correct the hue/color, value/lightness or darkness, chroma/saturation/purity and flop

ART 6.0 — Select the correct toner for color adjustment (toner)
within the formula) application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

6.1 Demonstrate the ability to select the correct toner to correct predetermined mismatch problems while selecting the correct toner

6.2 Demonstrate the ability to select the correct toner to correct the hue/color, value/lightness or darkness, chroma/saturation/purity and flop

ART 7.0 — Spray out completed (includes clearcoat application) application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

7.1 Apply finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed and spray pattern overlap) for the finish being applied

ART 8.0 — Make proper adjustments/hits producing a blendable color match (evidenced of a spray out card) application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

8.1 Apply tinted product to produce evidence of a blendable color match

8.2 Finish being applied Featheredge, Priming and Blocking (Scratched Substrate)

ART 9.0 — Surface cleaning application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing. (B2 ASE Test)

9.1 Clean entire panel; use appropriate cleaner to remove contaminants

9.2 Apply surface cleaner to remove contaminants

ART 10.0 — Repair damaged area in preparation for primers in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

10.1 Sand area using dual action sander

10.2 Sand areas to show appropriate removal of material for good featheredge technique

10.3 Sand beyond the repair area for adhesion of primer

ART 11.0 — Apply UV primers application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

11.1 Apply UV primer surfacer onto surface of repaired area

11.2 Check and adjust spray gun operation

11.3 Apply finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed and spray pattern overlap) for the finish being applied

11.4 Use UV light to dry according to material manufacturer recommendations

ART 12.0 — Perform proper block sanding techniques and final sand for basecoat application in relationship to tasks in the National Automotive Technicians Education

12.1 Dry sand the area to which two-component finishing filler has been applied

12.2 Dry sand the area to which UV primer-surfacer has been applied

12.3 Block the sand area to achieve levelness of repaired area

Paint Code ID and Masking

ART 13.0 — Locate and document vehicle manufacturers’ paint code application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

13.1 Determine the type and color of paint already on the vehicle by manufacturer’s vehicle information label

13.2 Identify the code using paint manufacture manuals and or computer to determine paint code location

ART 14.0 — Select the correct variant application if applicable in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing
Technical Standards for Painting and Refinishing (B2 ASE Test)

14.1 Identify variant swatches/chips
14.2 Match variant to vehicle using color-corrected lighting
14.3 Identify variant that will produce the best possible blend

ART 15.0 — Appropriate masking techniques for refinishing fender and blending into adjacent panel (front door) application in relationship to tasks in the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Technical Standards for Painting and Refinishing (B2 ASE Test)

15.1 Mask and protect adjacent panels that will not be refinished
15.2 Mask door jambs and other aperture panels

Note: * Denotes this material is covered on a separate written test prior to the official contest day

ART 19.0 — Oral Assessment/Interview*

19.1 Exhibit personal skills such as attendance, time management and individual responsibility*
19.2 Demonstrate promptness when required to meet interviewer at specific time and location*

ART 20.0 — Maintain professional conduct*

20.1 Demonstrate courteous behavior while waiting for the interviewer*

ART 21.0 — Maintain professional appearance*

21.1 Demonstrate proper attire (SkillsUSA uniform — light blue shirt, dark blue pants)*

ART 22.0 — Complete job application and résumé*

22.1 Properly and legibly complete a job application and résumé*

ART 23.0 — Demonstrate interview skills*

ASE Written Test

ART 24.0 — Contestants will be required to take a 50-question multiple-choice test prior to the official contest. A 100-point scale is used for this segment. Participants will be expected to successfully complete this segment. Participants should have some basic knowledge in math and science

24.1 Contestants will take a 50-question multiple-choice test in the area of Painting and Refinishing

24.1.1 Contestants will answer 50 questions in the area of painting and refinishing in the content areas of: 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 and miscellaneous

This information is obtained through the National Institute for Automotive Service Excellence Painting and Refinishing (B2) Certification Test.