

2024 Indiana SkillsUSA Championships
Task and Material List For:
Automotive Collision Repair Technology
April 20, 2024

Location:

Caliber Collision
751 N. Shadeland Av. Indianapolis, IN 46219

Purpose:

To evaluate each contestant's preparation for the workforce and select the contestant that will be representing the State of Indiana in Automotive Refinishing for SkillsUSA.

Clothing Requirements:

NO SCHOOL or EMPLOYER LOGO'S OR SCHOOL OR EMPLOYER AFFILIATIONS ANYWHERE ON CONTESTANT.

Official SkillsUSA light blue work shirt and navy pants is not required, but if you have it please wear.

Alternative clothing:

Work shirt or SkillsUSA T-shirt.

Work pants or Jeans (No holes or frays)

Work Boots (Black, Brown, or Tan) Shoes must be tied during Contest

Safety Glasses with side shield or goggles. (Prescription glasses can be covered with goggles)

*****IF ANY CONTESTANT HAS ANY MEDICAL ISSUES SUCH AS DIABETIC, SEIZURES, ETC. OR ANY ISSUES THAT THE TECH CHAIR NEEDS TO BE MADE AWARE OF, PLEASE SUBMIT A SPECIAL NEEDS FORM TO THE STATE DIRECTOR AS SOON AS POSSIBLE. (SEE STATE WEBSITE FOR THE FORM)*****

Awards Ceremony Dress Code

A Dress Code will be enforced during the Awards Ceremony. To accept the award "on-Stage", the student must wear the Official SkillsUSA Uniform, State T-Shirt or the completion Attire. No Shorts or Hats.

Résumé Requirement

All competitors must create a one-page hard copy résumé and submit this to the technical committee chair at the contest orientation. Failure to do so will result in a 10-point penalty. Competitors can bring a résumé to the contest on the day of competition however, the penalty will remain in effect.

Contest Overview and Suggested Tools Supplied by Contestant:

Fender Repair- Repair 2 dents one with Plastic filler

Go to <http://3mcollision.com/how-to/body-repair> Scroll down to 3M Metal Working Video's

Suggested tool:

Various Metal Finishing Hammers and Dollies

Right Angle Die Grinder W/ Roloc Disc attachment and proper grinding disks.

Body Files and sanding blocks

10ft Air Hose with Prevost fittings (Male No. PVSERP07-6251, Female No. PVSERC07-1201)

Welding- Using a 220 MillerMatic 211 with .030 wire.

Make 4 welds: Vertical 22ga on 16ga 6mm Plug welds, 16ga on 16ga 8mm plug weld, 16ga Butt with Backing, and one overhead 22ga Open Butt Joint weld.

Required tools:

Welding Helmet with at least a #10 Lens
Welding Gloves and Jacket
Welding Respirator
Assorted Vice Grips (to hold metal together)
Side Cuts

Plastic Bumper Repair- Make a 2-sided repair using a nitrogen plastic welder that will be supplied as well as welding materials.

Suggested tools:

D/A Sander with 6" hookit Disc and correct sand paper to fit your tools.
Die Grinder with a Reamer Bit.
Sanding blocking and sand paper.
Right Angle Die Grinder W/3" Roloc Disc attachment and roloc grinding disks.

Structural Analyst- Using a Tram Bar to measure Underbody Dimensions.

Suggested Tools:

A Millimeter Tape Measure and tram bar.

Tasks To Be Performed:

Contestants will demonstrate their ability to perform jobs skills based on the Task list outlined by ASE and NATEF. The competition includes a series of workstations to assess skills in the following areas: metal straightening, steel welding, plastic repair, and structural analysis. There will be a written test on estimating, structural analysis and an ASE exam.

Agenda

Un-Pack Equipment, Contestant only Orientation
Saturday, April 20th 8 am - 12:30 pm
Buses load at 7:00 am at West Pavilion NW Corner of Building
Buses leave at 7:15 am
Buses arrive at 7:30 am
Contest begins at 8:30 am - 12:30 pm
Bus pick up 1:15