



CONTEST SCOPE

Program Name- Auto Collision

Contest Chair-Todd Cassler

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Reading Muhlenberg CTC

2615 Warren Road Reading PA 19606

Contest:	Collision Repair Technology
Purpose:	To test skills related to the repair of collision damage
Clothing:	Contest appropriate clothing (safety glasses, work boots, work pants, school appropriate shirt). Students will not be penalized for clothing unless it is a safety violation.

Equipment and Material:

Equipment/Tools/Materials Provided by Host School

- "Killer Tools" Tram Gauge (google KIL-ART903M to view tram gauge)
- 18-gauge 1.5"x3" steel coupons for welding
- All materials necessary to complete projects
- Body filler and hardener
- MIG welding machines - Millermatic 141 welders w/.023 welding wire and argon/co2 shielding
- Selection of 9x11sandpaper in various grits

Equipment/Tools/Materials Provided by the Contestant:

- Air hose - we use Milton style M fittings
- Air sanders and DAs **with your sandpaper** to be sure it works
- Body file/sanding blocks and cheese grater
- Clamps and/or vise grips for welding
- Flat and pick hammers,
- General purpose dolly
- Grinder with new grinding disc
- Hand tools as desired

- Plastic spreaders, squeegees, filler tools, etc.
- Safety glasses, dust masks, work shoes, welding gloves, welding jacket, etc.
- Welding helmet with #10 or #12 lens
- Any other tools that the contestant prefers

Scope of Contest

Body Repair:

Contestant will straighten a small dent in a fender (both sides accessible) and fill same panel with plastic body filler. Repair should be as complete as possible and should be ready for primer. Contestant will **NOT** be applying primer.

Measurement:

Contestant will use a tram gauge to perform several under hood measurements and record the results on paper.

Welding:

Contestant will prepare metal and perform a 1" minimum lap weld, 1" minimum Butt weld with backer, and 3 plug welds.

Written Test:

Contestant will complete an ASE Format Test.

Additional Information

- Please read and adhere to this important information about air tools: We use Milton style M fittings. Host school will provide a fitting for your hose to connect to our compressed air source. Host cannot supply a hose with your style coupler and will not supply a fitting for each of your tools.
- Contestants are not permitted to talk to the judges, or other contestants about use of equipment, or how to accomplish any tasks before or during the competition. Each contestant will have a number. It will be **your responsibility** to make sure that all your work is numbered before you leave a station.
- No cell phones or other devices are allowed to be present during the competition. If they are present, the competitor will be disqualified.
- It is difficult to list all tools necessary for completing the refinishing competition. Feel free to bring any tools you might see necessary to use during the competition.