

Wilkes-Barre Area CTC

Auto Body / Collision Repair

Skills USA Competition Outline

Introduction: The Skills USA competition in Auto Body / Collision Repair will have two parts. The participants will complete test questions and or perform live work in the following POS tasks.

Test Information: The test will be taken on computers in the classroom. All tests will contain the same questions but will display in random order. Test questions will be in regards to POS tasks listed below in **BOLD** text. The test will contain 45 questions and have a 30 minute time limit. (Combination of true and false and multiple choice.)

Live Work Information: Live work will include specifically those tasks that are *ITALIZED* although students are expected to consider and implement all safety practices as specified in 202, 211, 212, 1502.

102 Identify basic auto body construction.

104 Identify government agencies regulating the auto collision industry.

202 Demonstrate proper use of personal safety devices and clothing.

211 Demonstrate safe and proper use of power and hydraulic tools.

212 Demonstrate safe and proper use of air powered tools.

217 Identify information on MSDS sheets.

601 Identify the types of Fasteners.

615 Remove and install door lock and handle assembly.

701 Use metal straightening tools.

702 Straighten damaged metal.

704 Use weld-on nail gun to repair sheet metal.

801 Select correct body filler and tools.

802 Prepare surface for body filler.

803 Prepare and apply body filler.

805 Finish body fillers.

1004 Diagnose centerline misalignment using centering gauges.

1005 Explain how to diagnose vehicle height damage with datum line gauges.

1301 Identify and select different types of automotive glass.

1501 Explain the differences between welding, soldering, and brazing.

1502 Demonstrate personal safety practices and vehicle protection measures.

1503 Set up the MIG welder.

1504 Make a weld and tune the welder.

1601 Identify cutting processes.

1903 Dry sand and featheredge areas.

1910 Apply caulking and seam sealers.

1912 Mask a vehicle.

2003 Set up, test and adjust spray guns.

2605 Demonstrate wet sand and polishing techniques.

3002 Prepare plastic surfaces for adhesive repair.

3007 Repair flexible plastic parts with urethane or epoxy adhesives and fiberglass reinforcements.

3401 Identify brake components.

3501 Identify parts of air conditioning systems.

3601 Identify major drive train components.

Additional information:

Each student will be provided one complete door. The door will have a dent with a one inch cut with a wizzer (cut-off tool). The following tasks will be performed on this door. 615, 701, 702, 704, 801, 802, 803, 805, 1502, 1503, 1504, 1903, 1912, 2605.

Each student will be provided a damaged bumper cover. Students will prepare the damaged area for the application of repair products. Student will apply repair products. Finishing sanding NOT required. 3002, 3007.