



## 2023 SKILLS AUTOBODY REPAIR

### ALUMINUM PROJECT

#### TASK SHEET PROJECT “C”

**READ ALL INSTRUCTIONS BEFORE BEGINNING**

**Duration: 1.5 hours (75 Minutes)**

**LAP WELD MUST BE DONE IN A FLAT POSITION  
PLUG WELDING MUST BE DONE IN A VERTICAL / UPRIGHT  
POSITION**

#### **Instructions**

All welding must be done to industry standards. Welds will be marked using the I-CAR specifications for length width and bead height, penetration will also be measured.

Join the three aluminum coupons using plug welds, and a lap weld.

**All measurements are from left to right on the Coupon  
Clean all coupons to industry standards**

1. Start with two coupons, each **1mm** in thickness.
2. Mark out **3** plug weld locations on one coupon. Plug weld holes must be spaced to the center at 20mm from the top and 25mm, 62mm, and 102mm from the left side.
3. Drill or punch the holes for the plug welds (8mm - 5/16<sup>th</sup>).
4. Secure onto the second **1mm** thick coupon with a 25mm offset.
5. Adjust coupons to a **vertical** position in vice, plug weld to industry standards
6. Secure the third **2.5mm** coupon under the lower offset from the two plug-welded coupons. Prepare coupons for lap weld.
7. Secure coupons in a flat position, Perform continuous seam weld along the lap seam.
8. Keep in mind that you are now welding together **mixed thicknesses**.

**Completed project to be presented to the exam marker when finished**



# 2023 Provincial Skills Canada Competition



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\*Please check back for updated versions