



## WELDING TRAINING & CERTIFICATION™: ALUMINUM GMA (MIG) WELDING

### FACILITY PREPARATION CHECKLIST

Thank you for your interest in participating in the I-CAR® Welding Training & Certification: Aluminum GMA (MIG) Welding course. Taking this action is a meaningful step in your professional growth in the collision industry.

Please **provide** the following **PERSONAL** items for **each participant**:

- Government-issued photo ID
- Welding magnifying lens per individual need for improved vision (If needed)
- Welding respirator (NIOSH approved)
- Ear protection
- Leather boots or shoes (no tennis shoes)
- Leather welding cape or welding shirt
- Safety glasses (must be worn at all times)
- Welding gloves
- Welding helmet shade of 11 or higher (Auto-darkening lens preferred)

Please **provide** the following **SHOP EQUIPMENT**:

- Pulse synergic MIG welder, capable of using 1.0 mm and 1.2 mm electrode wire on weld joints of 1.0 mm to 2.5 mm thickness (1 machine for every 3 participants)
- 5356 or 5554 aluminum welding wire (1.0 mm to 1.2 mm)
- Extra consumable supplies: contact tips (AL), replacement nozzle, gun liner must match size of wire used
- Heavy-duty vice
- Extra bottle of 100% argon shielding gas, for use as backup
- Extra roll of 5356 or 5554 aluminum welding wire for use as backup
- Fire extinguisher with current inspection tag
- Drive rolls matched to the type and size of the wire used (U-shaped for aluminum)
- Welding screens or welding blankets to protect items near welding area
- Auxiliary lighting (Optional – recommended)

**SMALL SHOP/STUDENT  
TOOLS per student:**

- 5/16" (8 mm) drill bits or punch
- Stainless steel wire brush
- 2 pair duckbill locking pliers
- 2 pair locking pliers
- 1 pair large C-clamp locking pliers
- Side-cutting pliers or welding multi-tool
- Nonflammable cleaning supplies
- Shop towels
- Plastic abrasive pads (panel prep pads typically used for refinishing)