



WELDING TRAINING & CERTIFICATION™: ALUMINUM GMA (MIG) WELDING (ST045L01)

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.

PERSONAL

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

- Government issued photo ID
- Ear plugs protection
- Leather boots or shoes (no tennis shoes)
- Leather welding cape or long sleeve welding shirt
- Welding magnifying lens per individual need for improved vision
- Safety glasses (must be worn at all times)
- Welding gloves
- Welding helmet (auto darkening lens preferred)
- New plastic lens cover for welding helmet
- Welding respirator (NIOSH approved)

SHOP EQUIPMENT

Please ***provide*** the following:

- Pulse Synergic MIG Welder, capable of using 1.0mm and 1.2mm electrode wire on weld joints of 1.0mm to 2.5mm thickness (1 machine for every 2 participants)
- 100% Argon Shielding gas for Aluminum welding
- Extra bottle of 100% Argon shielding gas, for use as back up
- 5356 Aluminum welding wire or 5554 Aluminum welding wire (1.0 to 1.2 mm)
- Extra roll of 5356 welding wire or 5554 Aluminum welding wire for use as back up
- Fire extinguisher with current inspection tag
- Extra consumable supplies: Contact tips (AL), replacement nozzle; Gun liner must match size of wire used
- Drive rolls matched to the type and size of the wire used U-shaped for Aluminum
- Recommended: Small parts kit with consumable supplies for each welder listed above
- Recommended: Auxiliary lighting/fluorescent drop light
- Sturdy mounted vise mounted in the welding area for destructive testing welds
- Classroom with tables and chairs
- Welding screens or welding blankets to protect items near welding area

SMALL SHOP TOOLS

Please ***provide*** the following:

- 2 pair duckbill locking pliers
- 2 pair locking pliers
- 1 pair 6" C-clamp locking pliers
- Felt-tipped permanent marking pens: red/black
- Regular pliers or welding pliers
- Side-cutting pliers or welding pliers
- Non-flammable cleaning supplies
- Shop Towels
- Plastic abrasive pads (Panel prep pads typically used for refinishing)
- 8mm or 5/16" punch deep reach or drill
- Extra 5/16" drills for use as needed
- Stainless steel brush