

WELDING TRAINING AND CERTIFICATION

WELDING TESTING AND CERTIFICATION

WCSA3

The **Welding Qualification Test is NOT an introductory welding course**. It is a hands-on practice session and verification of a technician's welding skill.

Major collision damage requires a greater level of expertise and welding is one of the most critical skills necessary in completing that repair safely. Poor welds can lead to part failure and compromised safety for the passengers in the vehicle.

Gas Metal Arc welding on steel has many advantages and is a common practice in today's collision repair facilities. From machine setup to mastering refined techniques, it is critical that technicians have a thorough understanding of MAG welding in order to achieve complete and safe repairs that ensure the vehicle is restored to its original condition.

Course Content

Instruction

The content of this course contains 3 steps. The first step is the online course (ST020E01) to be completed by the student prior to attending the hands-on session

During this course, participants will be briefed on the latest machine set up and maintenance of GMA (MAG) synergic welding equipment. This will include how to identify and correct defective welds and how welds will be visually and destructively tested for certification.

Hands-On Practice

The second step is the Hands-on training session. Following the instruction, participants will apply their knowledge through practice of Steel GMA (MAG) welds. The Hands-On training session will comprise of 4 hours of instruction and practice to improve the technician's skill level prior to completing the certification.

Participants will work with two different thicknesses of automotive-grade, zinc-coated steel—(1.4-1.6 mm) and (0.68-0.81 mm).

Skills Verification Test

The final step consists of the technicians taking the hands-on test, where they can demonstrate the ability to perform the specified 10 welds. All 10 welds must have zero faults to pass against I-CAR standards in order to successfully complete the certification. Participants are required to complete all welds within the 6-hour timeframe and with the steel allocation provided.

Testing Process

There are two parts to the testing process. The first being a visual examination and the second being a destructive test. The successful completion of the visual examination may not guarantee a pass of the destructive test.

Certification

All successfully completed I-CAR Steel Welding Certification designations are valid for three years from the passing date.

Retesting

Participants who are unable to complete all of the welds to certification standards during the event may retake the certification test on another date and pass in order to receive the certification. Technicians who are unsuccessful at completing the required welds will need to complete the program in full. Full fees will be payable.

Recommendations

The participant should have an understanding of the collision repair process, know how to work safely when welding, and have steel welding experience in a repair facility environment.

In order for a participant to successfully complete the steel program, participants are highly encouraged to complete the following training programs:

Successful completion of AUR 32116 – Certificate III in Automotive Vehicle Body or equivalent.

- Completion of the above-mentioned training program will help ensure the participants have the basic skills required to complete the steel program. Participants without prior welding experience & training will have difficulty in passing the steel welding program. Steel GMA (MIG/MAG) Theory and Preparation (WQPA3)
- BRZ02 Hands-On Skills Training (BRZ02)

Course Highlights

I-CAR Credit Hours: 6

I-CAR Points: 5

Estimated Duration: 10 hours
(over 2 days)

Format: Hands on, Instructor led training and testing

Meets the I-CAR ProLevel 2 or 3 training requirements for the following roles:



STRUCTURAL TECHNICIAN



NON-STRUCTURAL TECHNICIAN

After completing this course, you will be able to:

- Understand how to set and tune, and maintain welding machine
- Perform proper welding techniques
- Make common GMA (MIG) welds on multiple thicknesses of steel in vertical and overhead positions

Also Available

Adhesive Bond Testing

Allows technicians to perform adhesive bond testing for steel to steel, steel to aluminium and aluminium to aluminium bonded repairs.

