

## I-CAR AUSTRALIA Introduction to Welding Basics

### WELDING HANDS-ON TRAINING

#### WTS01

**This course is not a certification program. This course is designed for those who require upskilling to improve weld quality and equipment knowledge.**

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

**The training program is a great opportunity for technicians to learn to correctly set the new Inverter Synergic welding equipment being recommended by more OE manufacturers.**

### Course Content

#### Instruction

This course includes a classroom session covering welding equipment and techniques required to successfully weld automotive steels.

During this course technicians will cover:

- OH&S requirements when welding
- Welding fume protection
- Equipment set up and maintenance
- Learn common welds used in the smash repair industry
- Heat management techniques

#### Hands-On Practice

The second step is the Hands-on training session. Following the instruction, participants will apply techniques the trainer offers through practice of Steel GMA (MAG) welds. The Hands-On training session will comprise of 12 hours of instruction and practice to improve the technician's skill level.

Participants will work with automotive-grade, zinc-coated steel—(0.68-0.81 mm).

#### Visual Inspection

Welds completed must meet the Visual standard, imperfections will be identified with assistance to correct issues.

#### Destructive Testing

Students will be shown how to destructively test the welds being completed to check for defects and strength, with assistance from the trainer. Suggestions will be given to improve the results and further attempts at welds will be completed.

#### Reporting

Students who attend will receive a report of skills, improvements and recommended course follow ups.

### Recommendations

This training program is designed for students who require learning skills to weld successfully. Course is open to all levels of workshop technicians.

Minimum requirement students must be enrolled in or completed the following:

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

#### Recommended Training Path:

**Students' successful completion of the Introduction to Welding Basics can enter WCSA3 Welding Certification one day program within 6 months to gain certification.**

#### WCSA3 Steel Welding/ Certification

- BRZ02 Hands-On Skills Training (BRZ02)
- Steel GMA (MIG/MAG) Welding Hands-On & Welding Testing and Certification WCSA3
- Aluminium GMA (MIG) Welding Training & Certification WCA03

## Course Highlights

I-CAR Points: 2

Estimated Duration: 16 hours

(over 2 days)

Format: Hands on, Instructor led training

Recommended for the following roles:



STRUCTURAL TECHNICIAN



NON-STRUCTURAL TECHNICIAN

3rd & 4th YEAR APPRENTICE

**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 .7mm steel in vertical, horizontal and overhead positions

