

# WELDING AND ADHESIVELY BONDED PANEL REPLACEMENT

EXT02

**Today's modern vehicles utilise many different materials in their construction as well as differing joining methods. Being able to analyse and understand the different methods used and correctly replace them is a challenge for the modern collision repairer. Given the vast amount of materials available and the different requirements, the most up to date knowledge and information is critical to ensuring a complete repair**

## Course Content

### Module 1—Exterior Panel Replacement

This module offers an explanation of panel construction and attachment methods. The student will learn to analyse exterior panels for damage and gain an understanding of panel removal and installation procedures.

### Module 2—Door Skin and Welded on Hinge Replacement

As the course continues, the student is given an overview of door panel construction materials and parts. Instruction on how to perform damage analysis to door areas and repair plan considerations are provided. The student will also learn preparation procedures for door skin replacement, removal and installation of door skins and installation of door hinges.

### Module 3—Quarter Panel, Box Side, Side Panel Replacement

The third module of the course identifies quarter panel parts and joint designs. Considerations around planning a quarter panel repair are given, including complete removal and installation. This module also explains how to replace truck box sides and cab corners.

### Module 4—Roof Panel Replacement

Learning objectives for this module include explaining roof panel design and repair considerations, as well as insights into

attachment, removal and installation procedures of roof panels.

### Module 5—Rear Body Panel Replacement

The course concludes with an explanation of rear body panel joining design and repair plan considerations as well as rear body and rear cab removal and installation procedures.

## Recommendations

This class involves understanding the various repair options available for exterior panel repairs. It is recommended that students have an understanding of vehicle construction. Other courses that may be helpful include:

- Adhesive Bonding (ADH01)
- Steel GMA (MIG) Welding (WCS01)
- Squeeze-Type Resistance Spot Welding (WCS04)

## Registration

To register for Welding and Adhesively Bonded Panel Replacement (EXT02) click [here](#) or visit [www.i-car.com.au](http://www.i-car.com.au)

## Course Highlights

Points: 1

Estimated Duration: 4 Hours

Format: Classroom & Virtual Classroom

Meets the I-CAR training requirements for the following roles:



STRUCTURAL TECHNICIAN

**After completing this course, you will be able to:**

- Identify exterior panel construction and attachment methods
- Describe removal and installation procedures for exterior panels
- Understand considerations around replacing door skins and welded on hinges
- Explain replacement procedures for quarter panels, box sides and side panels
- Identify roof panel design and repair considerations
- Identify rear body panel joining methods and installation procedures

