

# ALUMINIUM PANELS AND STRUCTURES DAMAGE ANALYSIS

DAM05

Over the last two decades, aluminium materials have become a viable option for several vehicle makers. Aluminium panels and structures are lightweight, resistant to corrosion and recyclable. Being able to assess damage to aluminium panels and structures requires understanding its properties, characteristics, design and construction. This knowledge can help direct repair vs. replace decisions and support a safe and complete repair.

## Course Content

### Module 1—Aluminium Properties and Identification

In the first module of the course, the student will gain an understanding of the basic physical properties of aluminium. The student will also become familiar with the descriptions of aluminium alloys and understand how to identify vehicle part design.

### Module 2—Structural Damage Analysis

As the student moves through the course, they will be able to describe characteristics of aluminium exterior panels and understand proper damage analysis and repair vs. replace considerations.

### Module 3—Aluminium Structure Damage Analysis

The third module of the course identifies aluminium structural design and construction. The damage analysis considerations and the important considerations around repair vs. replace decisions for aluminium structural panels.

### Module 4—Aluminium Collision Repair Facilities

In the final module of the course, the student will learn about the different areas and functions of the repair facility, as well as information on welding, riveting and straightening equipment. The student will also learn about other available vehicle-specific training and I-CAR training.

## Recommendations

This class covers damage analysis and collision repair topics common on many of today's vehicles. Other courses that may be helpful include:

- Advanced Material Damage Analysis (DAM08)
- Structural Damage Analysis (DAM12)

## Registration

To register for Aluminium Panels and Structures Damage Analysis (DAM05) 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:



ESTIMATOR



ASSESSOR

After completing this course, you will be able to:

- Explain aluminium properties and characteristics and be able to identify their differences.
- Be able to identify vehicle part design
- Analyse damage to aluminium exterior panels and identify repair procedures
- Analyse damage to aluminium structural parts and understand repair considerations
- Understand the considerations around making repair vs. replace decisions
- Identify different areas of a repair facility and understand the functions of specific equipment

