

ADHESIVE BONDING

ADH01

A thorough understanding of the considerations around the use of certain adhesives and how to properly prepare parts for adhesive bonding procedures is beneficial to collision repair professionals and supports achieving a complete and safe repair.

I-CAR has enhanced its Adhesive Bonding (ADH01) course with a training experience that now offers an engaging “Live Demo”. The Live Demo portion of the course includes first-hand experience of adhesive bonding procedures using two-part adhesives, steps for an adhesive that is applied to bare metal and steps for an adhesive that requires a primed mating surface are given. In addition, this well-rounded adhesive bonding course provides information on adhesive bonding materials, specific work and handling time, bond line and clamping considerations as well as cure time recommendations and more.

Course Content

Module 1—Adhesive Bonding Materials

The course begins with an overview of adhesive bonding materials, such as epoxy, acrylic and urethane. Information on the differences between adhesive and cohesive failure and considerations around working with adhesives are provided.

Module 2— Attachment Processes

As the student moves through the course, he or she will gain an understanding of the different types of weld bonding and the types of rivets used for rivet bonding. Special considerations for using adhesives in aluminium repairs are also described in the second module.

Module 3—Two-part Adhesive Bonding Repairs

An explanation of the considerations for part removal and cleaning two-part adhesive bonding repairs are provided in the third module, as well as information on preparation of part attachment and factors that can impact successful attachment. A **live demonstration** of adhesive bonding procedures using two-part adhesives, steps for an adhesive that is applied to bare metal and steps for an adhesive that requires a primed mating surface are given.

Module 4—One-Part Adhesive Bonding Repairs

The course concludes with part removal and cleaning considerations for one-part adhesive bonding repairs. An explanation of the processes for preparing a one-part adhesive bed and processes for preparing a replacement part for one-part urethane are provided.

Registration

To register for Adhesive Bonding (ADH01) click [here](#) or visit 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



NON-STRUCTURAL TECHNICIAN

After completing this course, you will be able to:

- Recognise the differences between materials and adhesive characteristics
- Explain considerations around working with adhesives
- Identify the main types of adhesives used for collision repairs (epoxy, acrylic and urethane based adhesives)
- Know how to prepare adhesives for application and use them for panel attachment
- Identify and work with one and two part adhesives
- Work with rivets and other attachment methods in the collision repair process
- Understand when to follow the instructions provided by the vehicle maker and when to follow recommendations from the adhesive maker.

