

RIVET BONDING HANDS ON SKILLS DEVELOPMENT

RVT01

Each model year continues to introduce innovative materials for vehicle construction. A caveat to this is that the methods of attaching parts continue to evolve as well. Rivet bonding is one such method and is quickly becoming more common, most notably in its extensive use in modern vehicles.

Properly performing rivet bonding procedures not only requires knowing how to properly install various types of rivets, but also requires a well planned and organised approach to ensure the rivets will be installed before the adhesive sets. This course includes instruction and hands on practice. Participants will assemble a rivet bond prep kit to demonstrate their competence.

Course Content

Instruction

Based on the technician's experience the instructor will provide instruction on removal and installation methods for various types of rivets and the equipment needed to do so.

Hands-On Practice and Coaching

Students will apply their knowledge through hands on practice with one on one coaching with a trained instructor. Throughout the hands on course students will become proficient in the following

- Removal of self piercing rivets (SPRs) and blind rivets
- Properly set aluminium and steel solid rivets
- Properly install blind rivets
- Properly set up SPR installation equipment and install SPRs

Evaluation

The final phase of the training will be a short written post test. The questions will be based on the skills learned during the hands on practice.

Recommendations

It is recommended that students have a basic understanding of adhesive use and are familiar with the various types of rivets used for collision repair. Courses that are helpful include:

- Adhesive Bonding (ADH01)
- Aluminium-Intensive Vehicle Repairs (ALI01) or Aluminium Exterior Panel repair and Replacement (APR01)
- Welded and Adhesively Bonded Panel Replacement (EXT02)

Registration

To register for Rivet Bonding Hands On Skills Development (RVT01) click [here](#) or visit www.i-car.com.au

Course Highlights

Points: 1

Estimated Duration: 4 Hour

Format: Hands on Skills Development

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



STEEL STRUCTURAL TECHNICIAN



NON-STRUCTURAL TECHNICIAN



ALUMINUM STRUCTURAL TECHNICIAN

After completing this course, you will be able to:

Reduce Liability

- Trained for quality, safe Rivet bonding contributing to reduced risk
- Ensure proper equipment setup, tuning and techniques

Improve Productivity & Increase Quality

- Ability to repair faster resulting in improved touch time
- Improved technician skill for better quality

Marketability

- Demonstrates commitment to safety a high value to consumers
- Ability to handle the latest vehicle trends and materials

Improve Skills

- Emphasis on technique and procedures
- One on one coaching based on technician skill level
- Develop a repair plan and organise the tools and equipment to allow for a successful rivet bonding procedure



3M—Adhesive Bonding Program

Introduction

Automotive OEM's and other third parties often call for the use of adhesive in outer panel replacements. In many cases, the use of adhesive alone is specified, or its use in conjunction with weld bonding or rivet bonding is recommended. Correct preparation and application by the technician of 3M™ Panel Bonding Adhesive provides good uniform load distribution and inhibits corrosion while providing an additional layer of noise and vibration damping protection.

Course Goals:

Participants who successfully complete this course will be able to:

- Understand the types and characteristics of adhesives used in panel repair
- Properly remove a panel that has been previously bonded
- Properly clean a metal surface for bonding
- Properly prepare the metal surface for bonding (grinding)
- Properly use the applicator gun
- Apply the adhesive and secure the replacement panel
- Understand clamp time and methods of decreasing it
- Use proper sealing techniques
- Understand the need for and location of supplemental welds
- Re-establish corrosion protection

