



Australian Government

AURVTN023 Repair adhesive bonded structural damage on vehicles

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to repair bonded vehicle body panels and structures using an adhesive attachment method. It involves preparing for the task, selecting and using specialist tools and equipment, removing bonded structural damage, repairing panel sections, applying approved adhesives and realigning the structural repair, and completing workplace processes and documentation.

It applies to those working in the automotive body repair industry.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Competency Field

Vehicle Body

Unit Sector

Technical - Body

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to repair adhesive bonded structural damage	1.1 Job requirements are determined from workplace instructions 1.2 Original equipment manufacturer (OEM) or authorised agency's recommended bonding and repair procedures are accessed and interpreted

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.3 Adhesive specifications and application instructions, including safety data sheets (SDS), and bonding materials are selected and prepared 1.4 Hazards associated with the work are identified and risks are managed 1.5 Adhesive application tools and equipment and personal protective equipment (PPE) are selected and checked for serviceability 1.6 Work is planned to identify adhesive bonding methods, minimise waste, and use time efficiently
2. Remove and replace bonded sections	2.1 Replacement panels and components are checked against vehicle specifications and for quality 2.2 Bonded panels and structures are removed according to OEM procedures and without causing damage to system or components 2.3 Bonded panels and structures are repaired according to OEM procedures and stored until required 2.4 Bonded panels and structures are refitted using approved bonding methods, adhesives, materials and equipment according to OEM or authorised agency specifications, and safety and environmental requirements 2.5 Sealants are selected and applied according to OEM or authorised agency's specifications and workplace procedures 2.6 Bonded panels and structures are cleaned without causing damage to systems or components
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and bonded vehicle panels and structures are presented ready for painting 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 3.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 3.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate specifications and relevant information efficiently.
Writing skills to:	legibly and accurately fill out workplace documentation.
Oral communication skills to:	- clarify instructions and procedures - clearly report issues or outcomes.
Numeracy skills to:	- read tape measure and take accurate measurements - use basic mathematical operations, including addition, subtraction, multiplication and division, to: - estimate surface area according to bonding instructions - estimate adhesive curing times - calculate quantities of required materials - interpret adhesive code, type and grade.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Problem solving skills to:	identify quality issues and potential problems associated with repair of adhesive bonded structural damage.
Technology skills to:	use specialist removal and installation equipment.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Tools and equipment</i> must include:	- adhesive application equipment - hand tool and securing clamps.
<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - selecting and using PPE - using SDS for adhesives - manually handling vehicle panels - storing adhesives

	• using tools and equipment • environmental requirements, including procedures for trapping, storing and disposing of waste materials and adhesives.
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Unit Mapping Information

Equivalent to AURVTN3023 Remove and replace adhesive bonded panels and structures

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>