



Australian Government

AURVTN123 Repair adhesive bonded structural damage on vehicles

Release: 1

AURVTN123 Repair adhesive bonded structural damage on vehicles

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to repair bonded vehicle body panels and structures using an adhesive attachment method. This unit 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.

The unit 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.

Unit Sector

Vehicle Body Technical - Body

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to repair adhesive bonded structural damage	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret original equipment manufacturer (OEM) or authorised agency's required bonding and repair procedures 1.3 Select and prepare adhesive specifications, application instructions and bonding materials 1.4 Identify hazards associated with the work and manage risks 1.5 Select and check adhesive application tools and equipment and personal protective equipment (PPE) for serviceability 1.6 Plan work to identify adhesive bonding methods, minimise waste, and use time efficiently

ELEMENTS	PERFORMANCE CRITERIA
2. Remove and replace bonded sections	2.1 Check replacement panels and components against vehicle specifications and for quality 2.2 Remove bonded panels and structures according to OEM procedures and without causing damage to system or components 2.3 Repair bonded panels and structures according to OEM procedures and store until required 2.4 Refit bonded panels and structures using approved bonding methods, adhesives, materials and equipment according to OEM or authorised agency specifications, and safety and environmental requirements 2.5 Select and apply sealants according to OEM or authorised agency's specifications and workplace procedures 2.6 Clean bonded panels and structures without causing damage to systems or components
3. Complete work processes	3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 3.2 Clear work area and dispose of or recycle materials according to workplace procedures 3.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	- Reads tape measure and takes measurements - Uses 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 - Interprets adhesive code, type and grade.
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Problem solving	Identifies quality issues and potential problems associated

SKILL	DESCRIPTION
	with repair of adhesive bonded structural damage.
Technology	• Uses specialised equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTN023 Remove adhesive bonded structural damage on vehicles.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURVTN123 Repair adhesive bonded structural damage on vehicles

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- remove and replace bonded panels on at least two different vehicles, in which the work in total must include at least two of the following:
 - door skins
 - vehicle turret
 - quarter panel
 - boot floor section
- in the course of the above work, use the following bonding methods and securing techniques:
 - welding and bonding
 - rivet or screwing and bonding.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to repair adhesive bonded structural damage on vehicles, including procedures for:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to repair adhesive bonded structural damage on vehicles, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment

- identification, tagging and isolation of faulty equipment
- disposal of excess materials
- recycling procedures
- work health and safety (WHS) requirements relating to repairing adhesive bonded structural damage on vehicles, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using safety data sheets (SDS) for adhesives
 - manual handling vehicle panels
 - storing adhesives
 - using tools and equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials and adhesives
- tools and equipment relating to repairing adhesive bonded structural damage on vehicles, including:
 - adhesive application equipment
 - hand tool and securing clamps
- original equipment manufacturer (OEM) or authorised agency's recommended bonding procedures
- location and types of structural foams
- types of adhesives and their application methods and techniques
- removal and replacement techniques for bonded panels
- types of adhesive bonding methods
- securing techniques, including:
 - welding and bonding
 - rivet or screwing and bonding
- procedures for protecting vehicle and components when removing and replacing adhesive bonded panels
- procedures for final inspection of bonded structural repair.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to vehicle structural damage that they have repaired using adhesive bonding, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace

- workplace instructions
- OEM or authorised agency repair procedures
- PPE required to remove and replace adhesive bonded panels and structures
- SDS for adhesives
- vehicle specifications
- two different vehicles or frames with bonded panels requiring repair
- adhesives
- cleaning agents and materials
- tools, equipment and materials appropriate for repairing adhesive bonded panels.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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