



Australian Government

AURVTN026 Repair vehicle aluminium body panels without the use of body filler

Release: 1

AURVTN026 Repair vehicle aluminium body panels without the use of body filler

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to repair vehicle aluminium body panels without the use of body filler. It involves preparing for the task, selecting and using specialist aluminium repair tools and equipment, including tungsten inert gas (TIG) and metal inert gas (MIG) welding equipment, repairing vehicle aluminium body panels, finishing repair to pre-paint condition, 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 aluminium body panels	1.1 Job requirements are determined from workplace instructions 1.2 Original equipment manufacturer (OEM) specifications and workplace procedures are accessed and interpreted 1.3 Hazards associated with the work are identified and risks are

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	managed 1.4 Aluminium repair materials, <i>tools and equipment</i> are selected and checked for serviceability 1.5 Work is planned to identify aluminium repair methods, minimise waste, and use time efficiently
2. Carry out repair and heat shrinking activities	2.1 Aluminium panel to be repaired is identified, removed, stripped and prepared for repair according to workplace procedures 2.2 Correct tools and equipment are selected to preventing cross-contamination 2.3 Aluminium welding equipment, including TIG and MIG, is sourced and tested for correct operation 2.4 Oxyacetylene plant is used to anneal and heat shrink stretched panel section as required 2.5 Aluminium panel repair is finished to pre-paint condition without the use of body filler using planishing and file finishing techniques, and according to OEM or authorised agency's approved methods, workplace instructions, and <i>safety and environmental requirements</i>
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and panel is 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.

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Writing skills to:	legibly and accurately fill out workplace documentation.
Oral communication skills to:	- clarify instructions and procedures - discuss work that could potentially disturb trim or electrical, mechanical or air conditioning systems - clearly report issues or outcomes.
Numeracy skills to:	use measuring equipment accurately.
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 repairing aluminium body panels.
Technology skills to:	use specialist tools and 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:	- personal protective equipment (PPE) - aluminium specific: - hammers - hand dollies - sanders - hand tools and equipment - TIG and MIG welding equipment.
<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 - manually handling vehicle panels - using tools and equipment, including TIG and MIG welding equipment - environmental requirements, including procedures for trapping, storing and disposing of waste materials.

Unit Mapping Information

Equivalent to AURVTN3026 Repair aluminium body panels (finishing)

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURVTN026 Repair vehicle aluminium body panels without the use of body filler

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- repair and finish two different vehicle aluminium body panels to pre-paint condition without the use of body filler, including:
 - one panel with damage of a minimum size of 300 mm x 50 mm
 - one panel with a split of 150 mm.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to repairing vehicle aluminium body panels without the use of body filler, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling vehicle panels
 - using tools and equipment, including tungsten inert gas (TIG) and metal inert gas (MIG) welding equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) or authorised agency repair technical information
- different types of aluminium materials and their characteristics
- types and use of aluminium-specific repair tools and materials to prevent cross-contamination
- aluminium repair and finishing methods and techniques, including:
 - aluminium welding processes and techniques
 - pre-paint panel finish

- procedures for final inspection of repaired aluminium body panels.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 the aluminium body panels that they have repaired without the use of body filler, 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 detailing job requirements
- OEM or authorised agency repair specifications
- PPE required to repair aluminium body panels
- approved aluminium TIG and MIG welding equipment
- two different damaged vehicle aluminium body panels requiring repair and finishing without the use of body filler to pre-paint quality standard
- tools, equipment and materials appropriate for repairing vehicle aluminium body panels without the use of body filler.

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