



Australian Government

AURVTN027 Repair vehicle aluminium body panels using filler

Release: 1

AURVTN027 Repair vehicle aluminium body panels using filler

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to follow body filler procedures in order to repair vehicle aluminium body panels. It involves preparing for the task, selecting and using specialist tools and equipment, cleaning panel surfaces, identifying suitable body filler type, calculating body filler amount, mixing and applying body filler to aluminium panels, completing repairs 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 using filler	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 Body <i>filler</i> and materials for repair are selected and checked for

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.
	quality and body filler safety data sheets (SDS) are identified and interpreted 1.4 Hazards associated with the work are identified and risks are managed 1.5 Aluminium repair tools and equipment are selected and checked for serviceability 1.6 Work is planned to identify aluminium repair methods, minimise waste, and use time efficiently
2. Carry out repairs using filler	2.1 Aluminium body panels to be repaired are identified according to workplace instructions 2.2 Panels are repaired to pre-filler condition following OEM or approved agency repair procedures, tools and equipment 2.3 Filler is mixed according to manufacturer specifications 2.4 Filler is applied to repair panels using approved body filler instructions and equipment according to workplace procedures, and safety and environmental requirements 2.5 Filler repairs are completed to pre-paint condition following safety and environmental requirements 2.6 Repairs are checked according to workplace quality standards
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and vehicle body 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.

Skills	Description
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:	use basic mathematical operations, including addition, subtraction, multiplication and division, to calculate body filler quantities and mix required ratios.
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>Filler</i> must include:	two-pack polyester.
<i>Tools and equipment</i> must include:	- personal protective equipment (PPE) - aluminium specific: - hammers - hand dollies - sanders - hand tools and equipment - aluminium approved body filler.
<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 body filler - manually handling vehicle panels - using tools and equipment, including dust and fume collection equipment - environmental requirements, including procedures for trapping, storing and disposing of waste materials.

Unit Mapping Information

Equivalent to AURVTN3027 Repair aluminium body panels (filling)

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 AURVTN027 Repair vehicle aluminium body panels using 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 three different aluminium body panels on a vehicle to pre-paint condition using body filler, including repair to an aluminium body panel dent of a minimum of 200 mm x 200 mm to a maximum filler depth of 3 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 using filler, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using safety data sheets (SDS) for body filler
 - manually handling vehicle panels
 - using tools and equipment, including dust and fume collection equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- body filler specifications
- body filler types, characteristics and application methods
- body filler repair procedures, methods and techniques, including:
 - surface area preparation
 - use of specialist tools and equipment
 - correct storage to prevent contamination
 - pre-paint panel finish

- procedures for final inspection of completed repairs on vehicle aluminium body panels using filler.

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 panel that they have repaired, 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
- body filler application specifications
- SDS for body filler
- PPE required to repair aluminium body panel using filler
- body filler materials relevant to repair of vehicle aluminium body panels
- three different aluminium body panels or vehicles requiring filler repairs
- tools, equipment and materials appropriate for repairing aluminium body panels using filler.

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