



Australian Government

AURVTN127 Repair vehicle aluminium body panels using filler

Release: 1

AURVTN127 Repair vehicle aluminium body panels using filler

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 follow body filler procedures in order to repair vehicle aluminium body panels. This unit 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.

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 aluminium body panels using filler	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret original equipment manufacturer (OEM) specifications and workplace procedures 1.3 Select and check body filler and materials for repair for quality and identify and interpret body filler safety data sheets (SDS) 1.4 Identify hazards associated with the work and manage risks 1.5 Select and check aluminium repair tools and equipment for serviceability 1.6 Plan work to identify aluminium repair methods, minimise

ELEMENTS	PERFORMANCE CRITERIA
	waste, and use time efficiently
2. Carry out repairs using filler	2.1 Identify aluminium body panels to be repaired according to workplace instructions 2.2 Repair panels to pre-filler condition following OEM or approved agency repair procedures, tools and equipment 2.3 Mix filler according to manufacturer specifications 2.4 Apply filler to repair panels using approved body filler instructions and equipment according to workplace procedures, and safety and environmental requirements 2.5 Complete filler repairs to pre-paint condition following safety and environmental requirements 2.6 Check repairs according to workplace quality standards
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	Uses basic mathematical operations, including addition, subtraction, multiplication and division, to calculate body filler quantities and mix required ratios.
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Problem solving	Identifies quality issues and potential problems associated with repairing aluminium body panels.
Technology	Uses specialist tools and equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTN027 Repair vehicle aluminium body panels using filler.

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 AURVTN127 Repair vehicle aluminium body panels using filler

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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:

- repair at least three different aluminium body panels on a vehicle to pre-paint condition using body filler, including at least one 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

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 vehicle aluminium body panels using filler, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to repair vehicle aluminium body panels using filler, 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 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
- tools and equipment relating to repairing vehicle aluminium body panels using filler, including:
 - personal protective equipment (PPE)
 - aluminium specific:
 - hammers
 - hand dollies
 - sanders
 - hand tools and equipment
 - aluminium approved body filler
- body filler specifications, including two-pack polyester
- 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

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.

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

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