



Australian Government

AURVTN126 Repair vehicle aluminium body panels without the use of body filler

Release: 1

AURVTN126 Repair vehicle aluminium body panels without the use of body 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 repair vehicle aluminium body panels without the use of body filler. This unit 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.

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	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret original equipment manufacturer (OEM) specifications and workplace procedures 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check aluminium repair materials, tools and equipment for serviceability 1.5 Plan work to identify aluminium repair methods, minimise waste, and use time efficiently
2. Carry out repair and heat shrinking	2.1 Identify, remove, strip and prepare aluminium panel to be

ELEMENTS	PERFORMANCE CRITERIA
activities	repaired for repair according to workplace procedures 2.2 Select tools and equipment to prevent cross-contamination 2.3 Source and test aluminium welding equipment for operation 2.4 Use oxyacetylene plant to anneal and heat shrink stretched panel section as required 2.5 Finish aluminium panel repair 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 safety and environmental requirements
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 measuring equipment.
Oral communication	- Clarifies instructions and procedures - Discusses work that could potentially disturb trim or electrical, mechanical or air conditioning systems - 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 AURVTN026 Repair vehicle aluminium body panels without the use of body 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 AURVTN126 Repair vehicle aluminium body panels without the use of body 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 and finish at least two different vehicle aluminium body panels to pre-paint condition without the use of body filler, including:
 - at least one panel with damage of a minimum size of 300 mm x 50 mm
 - at least one panel with a split of 150 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 without the use of body filler, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to repair vehicle aluminium body panels without the use of body 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 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
- tools and equipment relating to repairing vehicle aluminium body panels without the use of body filler, including:
 - personal protective equipment (PPE)
 - aluminium specific:
 - hammers
 - hand dollies
 - sanders
 - hand tools and equipment
 - TIG and MIG welding equipment.
- 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

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.

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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