



Australian Government

AURVTN015 Repair vehicle body panels using metal finishing

Release: 1

AURVTN015 Repair vehicle body panels using metal finishing

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to carry out metal finishing to repair vehicle body panels, incorporating heat shrinking. It involves preparing for the task, selecting and using specialist tools and equipment, setting an oxyacetylene plant, panel beating and file finishing vehicle panels to pre-paint condition without using body fillers, and completing workplace processes and documentation.

It applies to those working in the automotive body repair industry. It does not cover aluminium panels.

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 vehicle body panel using metal finishing	1.1 Job requirements are determined from workplace instructions 1.2 Repair information is accessed and interpreted from original equipment manufacturer (OEM) or authorised agency's specifications

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.
	1.3 Hazards associated with the work are identified and risks are managed 1.4 Materials, <i>tools and equipment</i> are selected and checked for serviceability 1.5 Work is planned to identify <i>repair methods</i> , minimise waste, and use time efficiently
2. Carry out metal finishing and heat shrinking activities	2.1 Components are repaired using OEM or authorised agency's approved methods and equipment 2.2 Dents are removed using hammer and dolly techniques, and panel surface is file finished to pre-paint condition 2.3 Heat shrinking is applied if panel surface is over stretched using an oxyacetylene plant 2.4 Dust and fume collection equipment is used correctly during repair process according to <i>safety and environmental requirements</i> 2.5 Assistance is sought and organised where repair of components disturbs vehicle trim or electrical, mechanical or air conditioning systems 2.6 <i>Repairs</i> are checked to ensure work is completed to workplace, OEM or authorised agency's specifications and requirements
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and vehicle body panels are presented ready for use 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, including OEM repair procedures.

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:	interpret and set oxyacetylene plant working pressures.
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 potential problems associated with body panel repairs, including those associated with disturbance to vehicle trim or electrical, mechanical or air conditioning systems.
Teamwork skills to:	seek advice and assistance, and use strengths of authorised personnel.
Technology skills to:	use specialist body repair 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) - body repair hand tools, including panel hammer, hand dolly and body file - heat shrinking equipment.
<i>Repair methods</i> must include:	- panel stripping and preparation - hand dolly and hammer planishing and file finishing - heat shrinking.
<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 body panels - using tools and equipment, including dust and fume collection equipment - environmental requirements, including procedures for trapping, storing and disposing of waste materials.
<i>Repairs</i> must include:	file finishing vehicle body panel without using body filler

	• mild steel body panel splits, tears and dents.
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Unit Mapping Information

Equivalent to AURVTN3015 Repair body panels using metal finishing techniques

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 AURVTN015 Repair vehicle body panels using metal finishing

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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:

- complete repairs using metal finishing techniques to the following damaged vehicle body panels:
 - front guard or quarter panel with a minimum damage size of 200 mm x 200 mm
 - door skin panel that includes:
 - body style lines
 - pressings damage.

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 body panels using metal finishing, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling body panels
 - using tools and equipment, including dust and fume collection equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) or authorised agency repair procedures and specifications
- high strength steel repair processes
- body panel repair techniques and methods, including:
 - use of metal finishing repair tools and equipment
 - panel stripping and preparation

- hand dolly planishing and file finishing
- heat shrinking using oxyacetylene plant
- pre-paint panel finishing
- procedures for final inspection of metal finished repair.

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 vehicle body panels that they have repaired using metal finishing techniques, 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
- PPE required for metal finishing
- materials required to repair vehicle body panels using metal finishing
- damaged body panels to be repaired as specified in the performance evidence
- hand tools, equipment and materials appropriate for metal finishing vehicle body panels.

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