



Australian Government

AURVTN021 Repair vehicle body components using lead wiping

Release: 1

AURVTN021 Repair vehicle body components using lead wiping

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to carry out lead wiping and lead filling repairs to damaged vehicle body components. It involves preparing for the task, selecting and using specialist tools and lead wiping equipment, cleaning and tinning metal surfaces, heating and applying lead and lead wiping to complete repairs, finishing 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 body components using lead wiping	1.1 Job requirements are determined from workplace instructions 1.2 Lead wiping materials are selected and checked for quality and safety data sheets (SDS) are identified and interpreted 1.3 Hazards associated with the work are identified and risks are managed

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.
	1.4 <i>Lead wiping tools and equipment</i> and personal protective equipment (PPE) are identified and checked for serviceability 1.5 Work area is prepared and work is planned to minimise waste and use time efficiently
2. Apply lead wiping for repair	2.1 Metal on body panel to be repaired is cleaned thoroughly and prepared for tinning 2.2 Tinning paste is applied to metal surface according to product manufacturer specifications and workplace procedures 2.3 Body solder is heated to workable consistency and shaped using appropriate lead wiping tool 2.4 Lead wiping is carried out according to <i>safety and environmental requirements</i> 2.5 Repair area is filed using a body file and finished to pre-paint condition and workplace standards
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and components are 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.
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 and subtraction, to calculate quantities of materials needed for lead

Skills	Description
	wiping.
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 defects and potential problems associated with lead wiping.
Technology skills to:	use lead wiping equipment and materials.

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.

Materials must include:	- body solder - lead wiping fluxes - tinning paste.
Lead wiping tools and equipment must include:	- oxyacetylene plant - lead wiping tip - body file - specialist application tools.
Safety and environmental requirements must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - selecting and using PPE - using SDS for lead and tinning paste materials - handling and storing fluxes and lead - using lead wiping tools and equipment - environmental requirements, including procedures for: - storing fluxes and lead - trapping, storing and disposing of waste lead materials.

Unit Mapping Information

Equivalent to AURVTN3021 Repair body components using lead wiping

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 AURVTN021 Repair vehicle body components using lead wiping

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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 a lead wiping repair on two different vehicle body components, including repairing one dent of a minimum size of 100 mm x 50 mm x 2 mm in depth.

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 components using lead wiping, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using safety data sheets (SDS) for lead and tinning paste materials
 - handling and storing fluxes and lead
 - using lead wiping tools and equipment
- environmental requirements, including procedures for:
 - storing fluxes and lead
 - trapping, storing and disposing of waste lead materials
- lead wiping methods and techniques, including:
 - use of lead wiping equipment and application tools
 - lead wiping materials
 - metal tinning processes
 - cleaning repaired area to prevent corrosion
- procedures for protecting vehicle and components during lead wiping repair work
- procedures for final inspection of lead wiped 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 components they have repaired using lead wiping, 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 lead wiping
- SDS for lead and tinning paste materials
- materials for lead wiping repair of body components
- vehicle body components specified in the performance evidence requiring lead wiping repairs
- tools, equipment and materials appropriate for repairing vehicle body components using lead wiping.

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