



Australian Government

AURVTN020 Remove and replace major welded panels on vehicles

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove and replace vehicle welded panels and panel sections. It involves preparing for the task, selecting and using specialist tools and equipment, removing, repairing, aligning and welding major vehicle panels and sections, finishing repair 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

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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.

Elements Elements describe the essential outcomes.	Performance Criteria 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 replace major welded panels	1.1 Job requirements are determined from workplace instructions 1.2 Vehicle specifications and original equipment manufacturer (OEM) or authorised agency's recommended repair procedures are sourced and checked against workplace instructions 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools and equipment are selected and checked for serviceability 1.5 Work is planned to identify methods, minimise waste, and use time efficiently
2. Remove welded panels	2.1 Major welded panels and sections are removed according to OEM or authorised agency's approved methods and safety and environmental requirements 2.2 Spot welds are drilled out using recommended drill bit and drill diameters 2.3 Assistance is sought from authorised personnel where removal of welded panels and sections disturbs vehicle trim or electrical, mechanical or air conditioning systems
3. Replace and align welded panels	3.1 Panel sections are replaced, aligned and welded using approved OEM or authorised agency's methods and procedures 3.2 Replacement, alignment and welding of panel section are carried out to pre-paint condition
4. Complete work processes	4.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and panels are presented ready for painting 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 4.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 4.4 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:	- measure accurately using universal measuring system - use basic mathematical operations, including addition and subtraction, to calculate: - OEM or authorised agency repair measurements and tolerances - material requirements - adjust welder displays settings - set alignment equipment.
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:	refer problems outside area of responsibility to appropriate person.
Technology skills to:	use specialist repair 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>Tools and equipment</i> must include:	- personal protective equipment (PPE) - universal measuring system - hand and power tools and equipment - approved heating equipment of OEM or authorised agency, as required - approved welding equipment of OEM or authorised agency.
<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 vehicle panels - using tools and equipment when welding panels

	• environmental requirements, including procedures for trapping, storing and disposing of waste materials.
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Unit Mapping Information

Equivalent to AURVTN3020 Replace major welded panels

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>