



Australian Government

AURVTN020 Remove and replace major welded panels on vehicles

Release: 1

AURVTN020 Remove and replace major welded panels on vehicles

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.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURVTN020 Remove and replace major welded panels on vehicles

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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:

- remove and replace major welded panels on three different vehicles, where each replacement must involve three of the following:
 - quarter panel
 - turret
 - side panel
 - beaver panel
 - outer wheel house or similar non-structural panel
- during above work, conduct welding according to specifications of original equipment manufacturer (OEM) or authorised agency.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing and replacing major welded panels on vehicles, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling vehicle panels
 - using tools and equipment when welding panels
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- OEM or authorised agency vehicle specifications
- major welded panel replacement procedures and techniques

- repair and alignment methods and techniques, including:
 - use of tools and equipment, including tagging methods as required
 - approved welding processes
 - types and location of high strength steel (HSS)
- procedures for protecting vehicle and components when replacing panels
- procedures for final inspection of welded panel sections.

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 major welded vehicle panels that they have replaced, 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 workplace or simulated workplace
- workplace instructions
- PPE required to replace major welded vehicle panels
- universal measuring system
- OEM or authorised agency's specifications
- OEM or authorised agency's approved welding equipment
- three different vehicles or sections of vehicle requiring replacement of major welded panels
- tools, equipment and materials appropriate for replacing major welded vehicle panels.

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