



Australian Government

AURVTN019 Repair vehicle structural damage by riveting

Release: 1

AURVTN019 Repair vehicle structural damage by riveting

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to repair a vehicle's structural damage using riveting techniques. It involves preparing for the task, selecting and using specialist tools and equipment, repairing or replacing riveted panels, including straightening, realignment and attachment procedures, 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

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 riveted structural damage	1.1 Job requirements are determined from workplace instructions 1.2 Structural repair and riveting information is accessed and interpreted from original equipment manufacturer (OEM) or authorised agency's specifications and workplace procedures 1.3 Materials for repair are selected and checked for quality

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 Hazards associated with the work are identified and risks are managed 1.5 <i>Tools and equipment</i> are selected and checked for serviceability 1.6 Work area is prepared and work is planned to minimise waste and use time efficiently
2. Carry out structural riveting procedures	2.1 <i>Components</i> are repaired or replaced according to OEM or approved agency's riveting procedures, and equipment, <i>safety and environmental requirements</i> 2.2 Assistance is sought from authorised personnel where straightening, realigning and riveting of components disturb vehicle trim or electrical, mechanical or air conditioning systems
3. Carry out body measuring procedures	3.1 Repaired and riveted structural components are measured using workplace instructions and OEM or authorised agency's approved methods and equipment 3.2 Measuring activities are carried out and measurements are compared with OEM or authorised agency's specifications and workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and components 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.

Skills	Description
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 repair tolerances - measure accurately - set and adjust riveting 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 riveting equipment - use internet to research OEM procedures.

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) - hand and power tools and equipment - hydraulic pneumatic push/pull equipment - OEM or authorised agency's approved riveting equipment - OEM or authorised agency's approved measuring equipment - straightening systems.
<i>Components</i> must include:	- radiator support riveted assemblies - skirt and rail assemblies.
<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 - environmental requirements, including procedures for trapping, storing and disposing of waste materials.

Unit Mapping Information

Equivalent to AURVTN3019 Repair and replace structural damage by riveting

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 AURVTN019 Repair vehicle structural damage by riveting

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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 repair and riveting activities on three different damaged vehicles.

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 structural damage by riveting, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling vehicle panels
 - using tools and equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) or authorised agency's approved riveting instructions, rivet specifications and quality standards
- riveting procedures and techniques, including:
 - use of repair, riveting and measuring equipment
 - hydraulic straightening and realigning
 - body component measuring
 - panel replacement
- procedures for final inspection of riveted structural 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 structural damage they have repaired using riveting 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
- OEM or authorised agency's approved repair and riveting procedures and specifications
- PPE required to repair and rivet structurally damaged sections
- materials required to rivet, repair and replace structurally damaged sections
- three different structurally damaged vehicles requiring repair by riveting
- tools, equipment and materials appropriate for repairing structural damage by riveting.

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