



Australian Government

AURVTN031 Carry out vehicle sectional repairs

Release: 1

AURVTN031 Carry out vehicle sectional repairs

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to carry out vehicle sectional repairs and replace components, including structural and non-structural vehicle components. It involves preparing for the task, selecting and using specialist tools and equipment, selecting repair methods, removing damaged components, repairing damaged sections, replacing and aligning new or repaired components, welding and finishing 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 carry out sectional repairs	1.1 Job requirements are determined from workplace instructions 1.2 Original equipment manufacturer (OEM) or authorised agency's specifications for joining methods are accessed and interpreted 1.3 Materials for repair are selected and inspected 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 identified and checked for serviceability 1.6 Work is planned to identify sectional repair methods, minimise waste, and use time efficiently
2. Perform sectional repairs	2.1 Measurements are taken prior to repairs according to workplace procedures 2.2 Damaged sections are removed according to approved <i>repair methods</i> and equipment, <i>safety and environmental requirements</i> 2.3 Damaged surfaces are restored to a condition suitable for fitting new sections 2.4 Replacement sections are aligned, secured and welded according to OEM or authorised agency's specifications 2.5 Sectional repairs are completed without causing damage to other vehicle components or systems 2.6 Post-repair measurements are taken according to workplace procedures and compared with OEM or authorised agency's specifications, and further corrective action is taken where non-compliance is identified
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and repaired vehicle is 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
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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 quality issues and job outcomes.
Numeracy skills to:	- use basic mathematical operations, including addition and subtraction, to calculate: - OEM or authorised agency's measurements - set approved welders - set electronic alignment and repair measuring 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.
Technology skills to:	use specialist 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) - hand tools and equipment - specialist measuring and alignment equipment - OEM or authorised agency's recommended welding equipment.
<i>Repair methods</i> must include:	- OEM or authorised agency's recommended procedures - removal of damaged components - repair, replacement and alignment of components - underbody measurements to OEM or authorised agency's specifications - alignment or jiggling systems - sectional repairs - approved welding equipment and processes - pre- and post-repair measurements according to workplace procedures.
<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 components • using tools and equipment • environmental requirements, including procedures for trapping, storing and disposing of waste materials from repair process.
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Unit Mapping Information

Equivalent to AURVTN3031 Conduct major sectional repairs

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 AURVTN031 Carry out vehicle sectional repairs

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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 sectional repairs on three different damaged vehicles, where each sectional repair must involve two of the following:
 - body pillar
 - body rail
 - sill panel
 - quarter panel.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to carrying out vehicle sectional repairs, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling vehicle components
 - using tools and equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials from repair process
- original equipment manufacturer (OEM) or authorised agency's specifications and repair information, including:
 - OEM-approved bonding and riveting
 - sectional repair procedures
 - OEM-recommended procedures
 - removal of damaged components

- repair, replacement and alignment of components
- underbody measurements to OEM or authorised agency specifications
- alignment or jiggling systems
- approved welding equipment and processes
- pre- and post-repair measurements according to workplace procedures
- procedures for identifying structural and non-structural components, including:
 - body pillars
 - body rails
 - sill panels
 - quarter panels
- types of steels and their repair characteristics
- techniques and procedures for carrying out sectional repairs, including:
 - types of repair tools and equipment and their operating procedures
 - use of structural foam
 - use of weld-through primer
 - alignment methods, techniques and procedures
 - approved welding and attachment procedures
 - bonding, riveting and sealant methods and procedures
- procedures for protecting vehicle and components during repair work
- procedures for final inspection of completed sectional repairs.

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 sectional repairs they have completed, 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 specifications and procedures
- vehicle specifications
- PPE required to carry out sectional repairs
- three different damaged vehicles requiring the sectional repairs specified in the performance evidence

- replacement sectional components
- tools, equipment and materials appropriate for carrying out vehicle sectional repairs.

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