

**Australian Government** 

# AURVTN3027 Repair aluminium body panels (filling)

Release 1



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#### **Modification History**

Release	Comment
Release 1	Replaces AURV327466BA Repair aluminium body panels (filling) Unit code updated to meet policy requirements Reference to OHS legislation replaced with new WHS legislation
	Licensing statement added to unit descriptor

# **Unit Descriptor**

Unit descriptor	This unit covers the competence required to carry out body filler procedures to repair aluminium body panels.
	Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

## Application of the Unit

Application of the unit	The unit includes identification and confirmation of work requirement, preparation for work, the repair of body panels, the checking of outcomes and completion of work finalisation processes, including clean-up and documentation.
	Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.

# Licensing/Regulatory Information

Not applicable.

### **Pre-Requisites**

Not applicable.

## **Employability Skills Information**

Employability skills	This unit contains employability skills.	
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## **Elements and Performance Criteria Pre-Content**

	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold
unit of competency.	italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

### **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1.Work instructions are used to determine the job requirements, including method, materials and equipment.
	1.2. Job specifications are read and interpreted.
	1.3. WHS requirements, including dust and fume collection, breathing apparatus, eye and ear personal protection needs are observed throughout the work.
	1.4. Material for repair is selected.
	1.5. Equipment and tooling are identified and checked for safe and effective operation.
	1.6.Procedures are determined to minimise waste material.
	1.7.Procedures are identified for maximising energy efficiency while completing the job.
2. Carry out repairs using fillers	2.1.Information is accessed and interpreted from manufacturer/ component supplier specifications.
-	2.2. Protective equipment appropriate to repair activities is used.
	2.3.Components are repaired using approved methods and equipment in accordance with manufacturer/component supplier specification.
	2.4. Repairs are carried out to pre-paint condition.
	2.5.Repair activities are carried out according to industry regulations/guidelines, WHS legislation, and enterprise procedures/policies.
	2.6. Repair is checked in accordance with workplace and manufacturer/component supplier requirements.
	2.7. Workplace/equipment documentation is completed and dealt with relevant to repair outcomes.
3. Clean up work area	3.1. Material that can be reused is collected and stored.
and maintain equipment	3.2. Waste and scrap is removed following workplace and environmental procedure.
	3.3. Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures.
	3.4. Unserviceable equipment is tagged and faults identified in accordance with workplace requirements.
	3.5. Operator maintenance is completed in accordance with manufacturer/component supplier specifications and worksite procedures.

ELEMENT	PERFORMANCE CRITERIA
	3.6.Tooling is maintained in accordance with workplace procedures.

### **Required Skills and Knowledge**

#### **REQUIRED SKILLS AND KNOWLEDGE**

This section describes the skills and knowledge required for this unit.

#### Required skills

- collect, organise and understand information related to work orders, plans and safety procedures for repairing aluminium body panels incorporating filler materials
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with worksite supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including preparation and layout of worksite and obtaining of equipment and materials to avoid backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- establish safe and effective work processes which anticipate and/or resolve problems and downtime, to systematically develop solutions to avoid or minimise reworking and avoid wastage
- use mathematical ideas and techniques to calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- use workplace technology related to repair of body panels, including the use of specialist tooling, measuring equipment, computerised technology and communication devices and the reporting/recording of results

#### Required knowledge

A working knowledge of:

- WHS regulations/requirements, equipment, material and personal safety requirements
- technical information
- material types and stress limits
- types of body filler and their application
- body filler repair procedures and techniques
- work organisation and planning processes
- enterprise quality processes

# **Evidence Guide**

#### **EVIDENCE GUIDE**

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<ul> <li>It is essential that competence is fully observed and there is ability to transfer competence to changing circumstances and to respond to unusual situations in the critical aspects of:</li> <li>observing safety procedures and requirements</li> <li>communicating effectively with others involved in or affected by the work</li> <li>selecting methods and techniques appropriate to the circumstances</li> <li>completing preparatory activity in a systematic manner</li> <li>applying vehicle protection methods</li> <li>completing body filler repair procedures for at least one simulated vehicle panel with the following minimum repair requirements/specifications:</li> <li>the panel to incorporate style line and pressings</li> <li>a dent of a minimum of 400mm</li> <li>a filling requirement of a maximum depth of 3mm over 75% of the repair area</li> <li>completing workplace/equipment documentation.</li> </ul>
Context of, and specific resources for assessment	<ul> <li>Application of competence is to be assessed in the workplace or simulated worksite.</li> <li>Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints.</li> <li>Assessment is to comply with regulatory requirements, including Australian Standards.</li> <li>The following resources should be made available:</li> <li>workplace location or simulated workplace</li> <li>materials relevant to repair of aluminium body panels</li> <li>equipment, hand and power tooling appropriate to repair of aluminium body panels</li> <li>activities covering mandatory task requirements.</li> </ul>
Method of assessment	Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training

EVIDENCE GUIDE	
	<ul> <li>Package.</li> <li>Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.</li> <li>Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies.</li> <li>Assessment must satisfy the endorsed assessment.</li> <li>Assessment may be applied under project related conditions and require evidence of process.</li> <li>Assessment must confirm a reasonable inference that competence is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.</li> <li>It is preferable that assessment reflects a process rather than an event and occurs over a period of time to cover varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other persons subject to agreed authentication arrangements.</li> <li>Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.</li> </ul>
Guidance information for assessment	

# **Range Statement**

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RANGE STATEMENT	
The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.	
Panel repair (filler)	Panel repair (filler) covers the restoration of the aluminium panel to original shape and contour by metal straightening techniques and application of fillers.

RANGE STATEMENT	
Defects	Defects include split/tear and dents.
Repair fillers	Repair fillers may be two-pack polyester and polystyrene types.
WHS	WHS requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures. This may include protective clothing and equipment, use of tooling and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, enterprise first aid, hazard control and hazardous materials and substances.
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation/regulation/codes of practice and workplace policies and practices.
Safe operating procedures	Safe operating procedures are to include, but are not limited to operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and shifting, working in proximity to others and worksite visitors.
Emergency procedures	Emergency procedures related to this unit are to include, but are not limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and worksite evacuation.
Environmental requirements	Environmental requirements are to include but are not limited to waste management, noise, dust and clean-up management.
Quality requirements	Quality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures.
Statutory/regulatory authorities	Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of

RANGE STATEMENT	
	practice.
Tooling and equipment	Tooling and equipment may include hand tooling, power tooling and equipment, templates, welding equipment, vehicle protection, specialist tooling and lifting equipment.
Materials	Materials may include filling materials and cleaning materials.
Communications	Communications are to include, but are not limited to verbal and visual instructions and fault reporting and may include worksite specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers.
Information/documents	<ul> <li>Sources of information/documents may include:</li> <li>verbal or written and graphical instructions, repair quotations, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches</li> <li>safe work procedures related to repair of aluminium body panels</li> <li>regulatory/legislative requirements pertaining to automotive industry, including Australian Design Rules</li> <li>engineer's design specifications and instructions</li> <li>organisation work specifications and requirements</li> <li>instructions issued by authorised enterprise or external persons</li> <li>Australian Standards.</li> </ul>

# **Unit Sector(s)**

Unit sector Vehicle body	
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# **Co-requisite units**

Not applicable.

# **Competency field**

Competency field	Technical - Body
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