



Australian Government

AURVTN115 Repair vehicle body panels using metal finishing

Release: 1

AURVTN115 Repair vehicle body panels using metal finishing

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to carry out metal finishing, incorporating heat shrinking, to repair vehicle body panels. This unit involves preparing for the task, selecting and using specialist tools and equipment, setting an oxyacetylene plant, panel beating and file finishing vehicle panels to pre-paint condition without using body fillers, and completing workplace processes and documentation.

The unit applies to those working in the automotive body repair industry. It does not cover aluminium panels.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Unit Sector

Vehicle Body Technical - Body

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to repair vehicle body panel using metal finishing	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret repair information from original equipment manufacturer (OEM) or authorised agency's specifications 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check materials, tools and equipment for serviceability 1.5 Plan work to identify repair methods, minimise waste, and use time efficiently
2. Carry out metal	2.1 Repair components using OEM or authorised agency's

ELEMENTS	PERFORMANCE CRITERIA
finishing and heat shrinking activities	required methods and equipment 2.2 Remove dents using hammer and dolly techniques, and file finish panel surface to pre-paint condition 2.3 Apply heat shrinking if panel surface is over stretched using an oxyacetylene plant 2.4 Use dust and fume collection equipment during repair process according to safety and environmental requirements 2.5 Seek and organise assistance where repair of components disturbs vehicle trim or electrical, mechanical or air conditioning systems 2.6 Check repairs to ensure work is completed to workplace, OEM or authorised agency specifications and requirements
3. Complete work processes	3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 3.2 Clear work area and dispose of or recycle materials according to workplace procedures 3.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	- Locates required sources of information efficiently - Develops a sequenced plan for a specific task.
Numeracy	Interprets and sets oxyacetylene plant working pressures.
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Teamwork	Seeks advice and assistance, and uses strengths of authorised personnel.
Problem solving	Identifies potential problems associated with body panel repairs, including those associated with disturbance to vehicle trim or electrical, mechanical or air conditioning systems.
Technology	Uses specialised equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTN015 Repair vehicle body panels using metal finishing.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURVTN115 Repair vehicle body panels using metal finishing

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- complete repairs using metal finishing techniques to the following damaged vehicle body panels:
 - front guard or quarter panel with a minimum damage size of 200 mm x 200 mm
 - door skin panel that includes:
 - body style lines
 - pressings damage.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to repair vehicle body panels using metal finishing, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to repair vehicle body panels using metal finishing, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures

- work health and safety (WHS) requirements relating to repairing vehicle body panels using metal finishing, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling body panels
 - using tools and equipment, including dust and fume collection equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) or authorised agency repair procedures and specifications
- high strength steel repair processes
- repair processes for mild steel body panel, splits, tears and dents
- tools and equipment for body panel repair techniques, including:
 - personal protective equipment
 - body repair hand tools, including:
 - panel hammer
 - hand dolly
 - body file
 - heat shrinking equipment
- body panel repair techniques and methods, including:
 - use of metal finishing repair tools and equipment
 - panel stripping and preparation
 - hand dolly planishing and file finishing
 - file finishing vehicle body panel without using body filler
 - heat shrinking using oxyacetylene plant
 - pre-paint panel finishing
- procedures for final inspection of metal finished repair.

Assessment Conditions

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 body panels that they have repaired using metal finishing 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
- PPE required for metal finishing

- materials required to repair vehicle body panels using metal finishing
- damaged body panels to be repaired as specified in the performance evidence
- hand tools, equipment and materials appropriate for metal finishing vehicle body panels.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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