



Australian Government

AURVTP013 Prepare vehicle substrates for refinishing

Release: 1

AURVTP013 Prepare vehicle substrates for refinishing

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to prepare vehicle substrates for refinishing by removing surface rust and scale, and applying primers and sealers before the final refinishing. It involves preparing for the task, selecting and using specialist tools and equipment, selecting and using materials, cleaning vehicle substrate surfaces according to manufacturer specifications, and completing workplace processes and documentation.

It applies to those working in the automotive paint refinishing repair industry. The preparation of plastic or composite materials for refinishing is not addressed in this unit.

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

Competency Field

Vehicle Body

Unit Sector

Technical - Paint

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 for work	1.1 Job requirements are determined from workplace instructions 1.2 <i>Preparation information</i> is accessed and interpreted 1.3 Vehicle or component is inspected to identify substrate paint film builds

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 Materials are selected and inspected for quality 1.5 Hazards associated with the work are identified and risks are managed 1.6 Refinishing tools and equipment and personal protective equipment (PPE) are selected and checked for serviceability 1.7 Work is planned to identify vehicle substrate preparation methods , minimise waste, and prevent damage to vehicle
2. Remove surface rust and apply primers	2.1 Surface rust and scale are removed from substrate using approved methods, materials and equipment and according to workplace procedures and safety and environmental requirements 2.2 Substrate components affected by application processes are protected or removed without causing damage to vehicle or components 2.3 Surfaces to be painted are cleaned and contaminants are removed 2.4 Primers and primer surfaces are applied using approved methods, materials and equipment
3. Prepare primed and sealed surface for refinishing	3.1 Surfaces to be refinished are prepared using approved methods, materials and equipment to workplace quality requirements 3.2 Identified surface defects are recorded and reported
4. Complete work processes	4.1 Final inspection is made to ensure work meets workplace expectations and prepared surface is presented ready for refinishing 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 appropriate sources of information efficiently.

Skills	Description
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 material quantities.
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 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>Preparation information</i> must include:	- manufacturer specifications - paint technical data sheets (TDS) - paint safety data sheets (SDS) - workplace procedures.
<i>Materials</i> must include:	- chemical cleaners - body fillers - primer fillers - abrasive papers - cleaning materials - masking materials - primers and etch primers.
<i>Refinishing tools and equipment</i> must include:	- hand tools - air and power tools - cleaning equipment - spray equipment - paint measuring equipment.
<i>Substrate preparation methods</i> must include:	- wet and dry sanding - masking - filling - primer spraying - applying refinishing material.

<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, including positive air feed masks • using TDS and SDS for primers and chemical cleaners • handling and storing paint materials • using tools and equipment • using approved drying areas • environmental requirements, including procedures for trapping, storing and disposing of waste materials.
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Unit Mapping Information

Equivalent to AURVTP3013 Prepare substrate for refinishing

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 AURVTP013 Prepare vehicle substrates for refinishing

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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:

- prepare two different vehicle substrates for refinishing, in which the work must involve:
 - full steel vehicle body panel with surface rust
 - full aluminium vehicle body panel
 - stainless steel sheet measuring at least 150 mm x 150 mm or stainless steel body moulding
 - galvanised coated sheet measuring at least 150 mm x 150 mm b
 - zinc anneal sheet measuring at least 150 mm x 150 mm.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to preparing vehicle substrates for refinishing, including procedures for:
 - selecting and using personal protective equipment (PPE), including positive air feed masks
 - using technical data sheets (TDS) and safety data sheets (SDS) for primers and chemical cleaners
 - handling and storing paint materials
 - using tools and equipment
 - using approved drying areas
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- paint manufacturer specifications

- types and uses of tools, equipment and materials, including:
 - primers and sealers
 - spray gun set-up, maintenance and application
 - cleaning agents
- surface preparation methods and techniques for primers, sealers and surface repair:
 - masking off areas not to be coated
 - adhesion tests
 - primer mixing techniques
 - application methods for primers, fillers and sealers
 - sanding and blocking
 - feather edging procedures
- procedures for protecting vehicle and components when preparing substrates
- procedures for final inspection of prepared substrates.

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 task.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicle substrates that they have prepared for refinishing, 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
- TDS and SDS for primers and chemical cleaners
- PPE required to prepare substrates for refinishing
- materials required to prepare substrates for refinishing
- vehicle substrates specified in the performance evidence requiring preparation for refinishing
- tools, equipment and materials appropriate for preparing vehicle substrates for refinishing.

Links

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