



Australian Government

AURVTP025 Apply water-based refinishing materials to vehicle bodies and substrates

Release: 1

AURVTP025 Apply water-based refinishing materials to vehicle bodies and substrates

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to mix and apply water-based refinishing materials in order to refinish a variety of vehicle bodies and substrates. It involves preparing for the task, selecting and using specialist tools and equipment, identifying paint defects, preparing surfaces, selecting, mixing and applying water-based refinishing materials according to manufacturer specifications, and completing workplace processes and documentation.

It applies to those working in the automotive paint refinishing 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 - 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 to mix and apply water-based refinishing materials	1.1 Job requirements are determined from workplace instructions 1.2 <i>Refinishing information</i> is accessed and interpreted 1.3 <i>Refinishing materials</i> are selected and inspected for quality

Elements Elements describe the essential outcomes.	Performance Criteria 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>Refinishing tools and equipment</i> and personal protective equipment (PPE) are selected and checked for serviceability 1.6 Work is planned to identify mixing and application methods for water-based paint, minimise waste, prevent damage to vehicle, and use time efficiently
2. Mix water-based refinishing materials	2.1 Water-based paint materials are calculated and mixed according to paint manufacturer specifications, formulas, codes, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Codes and information relevant to job requirements are recorded accurately
3. Apply water-based refinishing materials	3.1 Refinishing materials are applied using manufacturer recommended <i>method</i> and intervals, and techniques that ensure painted surface <i>meets specifications</i> , according to safety and environmental requirements 3.2 Refinishing materials are dried using approved methods and equipment
4. Rectify paint faults	4.1 Paint faults are identified according to industry and workplace procedures 4.2 Rectification procedures are selected to suit fault or damage type 4.3 Materials to rectify paintwork are determined from paint manufacturer information 4.4 Paint surface faults are rectified using compounds, polishes and glazes to blend rectified areas with existing paintwork
5. Complete work processes	5.1 Final inspection is made to ensure work meets workplace expectations and vehicle body is presented ready for use 5.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 5.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 5.4 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.
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:	- interpret paint codes and formulas - accurately set and adjust settings for: - spray painting air pressure - paint measuring system - spray booth temperature settings - use basic mathematical operations, including addition, subtraction, multiplication and division to, determine ratios, measure and calculate quantities of paint and materials.
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 equipment, including: - spray painting equipment - electronic paint measuring and mixing system - computerised drying 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>Refinishing information</i> must include :	- paint manufacturer specifications - paint technical data sheets (TDS) - paint safety data sheets (SDS) - workplace procedures.
<i>Refinishing materials</i> must include:	- water-based solid, metallic and pearl paint materials - water-based paint reducers and hardeners - cleaning materials.

Refinishing tools and equipment must include:	• spaying equipment • paint drying equipment • paint mixing system.
Safety and environmental requirements must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: • selecting and using PPE • using TDS and SDS for water-based paint • handling and storing paint materials • using tools and equipment • using approved drying area • environmental requirements, including procedures for trapping, storing and disposing of waste materials.
Methods must include:	• spraying techniques • drying procedures • detailing.
Meeting specifications must include:	• matching colour, texture, depth and gloss • ensuring paint finish is contaminant-free • ensuring paint finish blends into surrounding surfaces.

Unit Mapping Information

Equivalent to AURVTP3025 Mix and apply water-based refinishing materials

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 AURVTP025 Apply water-based refinishing materials to vehicle bodies and substrates

Modification History

Release	Comment
Release 1	New unit of competency.

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:

- apply water-based refinishing materials on three different vehicle substrates, including two of the following:
 - vehicle panel
 - full vehicle side
 - vehicle front end or rear end.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to applying water-based refinishing materials to vehicle bodies and substrates, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using technical data sheets (TDS) and safety data sheets (SDS) for water-based paint
 - handling and storing paint materials
 - using tools and equipment
 - using approved drying area
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- paint manufacturer specifications
- types and application methods for automotive water-based refinishing materials, including correct use of positive air feed masks
- mixing and application techniques for water-based refinishing materials, including:

- paint mixing techniques and systems
- paint fault identification and rectification methods for water-based refinishing materials
- types and use of equipment used in water-based refinishing processes, including:
 - set-up and operation of paint mixing system
 - set-up, operation and maintenance of spray guns
 - paint drying equipment
 - paint cleaning materials and equipment
- procedures for protecting vehicle and components when applying refinishing materials
- procedures for final inspection of applied water-based refinishing materials.

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 having applied water-based refinishing materials to vehicle bodies and substrates, 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
- paint and vehicle manufacturer specifications
- paint codes
- TDS and SDS for water-based paint
- PPE, including positive air feed masks
- water-based refinishing materials
- three different vehicle substrates specified in the performance evidence requiring painting with water-based refinishing materials
- tools, equipment and materials appropriate for mixing and applying water-based refinishing materials to vehicle bodies and substrates.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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

