



Australian Government

AURVTP024 Apply clear over base multi-layer and pearl refinishing materials to vehicle body components

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to mix and apply clear over base (COB) multi-layer and pearl refinishing materials to vehicle body components. It involves preparing for the task, selecting and using specialist tools and equipment, identifying paint defects, preparing vehicle surfaces, selecting, mixing and applying 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 COB multi-layer and pearl refinishing	1.1 Job requirements are determined from workplace instructions 1.2 Vehicle paint specifications, technical data sheets (TDS) and paint safety data sheets (SDS) are accessed and interpreted

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.
materials	1.3 <i>Refinishing materials</i> are selected and inspected for quality 1.4 Hazards associated with the work are identified and risks are managed 1.5 Refinishing <i>tools and equipment</i> , including personal protective equipment (PPE), are selected and checked for serviceability 1.6 Work is planned to identify mixing and application methods for COB multi-layer and pearl paint, minimise waste, prevent damage to vehicle and use time efficiently
2. Mix COB multi-layer and pearl refinishing materials	2.1 Refinishing materials are calculated and mixed according to paint manufacturer specifications, formulas and codes 2.2 Codes and information relevant to job requirement are recorded accurately 2.3 Mixing activities are carried out according to workplace procedures and <i>safety and environmental requirements</i> 2.4 COB multi-layer and pearl paints are mixed without causing damage to components or systems
3. Apply COB multi-layer and pearl refinishing materials	3.1 Refinishing materials are applied using manufacturer recommended method and intervals according to safety and environmental requirements 3.2 Refinishing materials are dried using approved methods and equipment 3.3 Refinishing techniques are used to ensure painted surface <i>meets specifications</i> 3.4 Paint surface faults are rectified using compounds, polishes and glazes to blend rectified areas with existing paintwork
4. Complete work processes	4.1 Final inspection is made to ensure work meets workplace expectations and component is presented ready for use 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.
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 materials</i> must include:	- metallic, pearl two-pack base coat - clear two-pack acrylic enamel - water-based paints - hardeners - paint reducers.
<i>Tools and equipment</i> must	- spraying equipment - paint tinting systems

include:	• approved spray area • drying equipment • paint measuring system.
<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 • using TDS and SDS for COB two-pack 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.
<i>Meeting specifications</i> 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 AURVTP3024 Mix and apply clear over-base multi-layer pearl 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 AURVTP024 Apply clear over base multi-layer and pearl refinishing materials to vehicle body components

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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:

- mix and apply clear over base (COB) multi-layer pearl refinishing materials on three different vehicles, including two of the following vehicle body components:
 - single 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 clear over base multi-layer and pearl refinishing materials to vehicle body components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using technical data sheets (TDS) and safety data sheets (SDS) for COB two-pack 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
- vehicle paint specifications

- types and application methods for automotive paint, including correct use of positive air feed masks
- mixing and application techniques for COB multi-layer and pearl refinishing materials, including:
 - paint mixing techniques and systems
 - visual colour matching techniques and use of colour test cards
 - paint fault identification and rectification methods for COB multi-layer and pearl refinishing materials
- types and use of paint colour matching equipment, 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 vehicles and components when applying refinishing materials
- procedures for final inspection of completed COB multi-layer pearl application.

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 COB refinishing materials they have applied to vehicle body components, 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 COB multi-layer and pearl refinishing materials
- PPE, including positive air feed masks
- materials to apply COB multi-layer and pearl refinishing materials
- COB refinishing materials
- three different vehicles or panels requiring painting with COB multi-layer and pearl refinishing materials
- tools, equipment and materials appropriate for mixing and applying COB multi-layer and pearl refinishing materials.

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