



Australian Government

AURVTP014 Colour match multi-layer and clear over base two-pack paints on vehicles and 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 match vehicle or component multi-layer and clear over base paint colours using original equipment manufacturer (OEM) paint codes. It involves preparing for the task, selecting and using specialist tools and equipment, identifying paint codes, preparing colour matching test cards, mixing and spraying paint and conducting a visual colour match, 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 colour match multi-layer and clear over base two-pack	1.1 Job requirements are determined from workplace instructions 1.2 <i>Colour matching information</i> is accessed and interpreted 1.3 Vehicle paint specifications are identified from workplace

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.
paints	instructions and recorded 1.4 Paint colour matching materials are selected and inspected for quality 1.5 Hazards associated with the work are identified and risks are managed 1.6 Paint tools and equipment and personal protective equipment (PPE) are selected and checked for serviceability 1.7 Work is planned to identify multi-layer and clear over base colour matching techniques, minimise waste, and prevent damage to vehicle
2. Mix multi-layer clear over base colour	2.1 Paint mixing system is set up and operated according to manufacturer instruction 2.2 Mixing is carried out according to paint manufacturer specifications, approved colour matching method , and safety and environmental requirements , and without causing damage to vehicle or components
3. Prepare colour test card and perform visual matching	3.1 Colour matching test cards are prepared and sprayed to enable a visual comparison between matched and original paint 3.2 Visual matching is carried out, comparisons are made between matched and original paint, and paint codes are recorded 3.3 Painting and matching activities are carried out according to workplace procedures, OEM paint codes, and safety and environmental requirements 3.4 Paint is remixed for further matching prior to application if first mix does not match original paint
4. Complete work processes	4.1 Final inspection is made to ensure work meets workplace expectations and matched paint 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 OEM paint codes and formulas - use basic mathematical operations, including addition, subtraction, multiplication and division to, determine ratios, and 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 colour matching tools - use computerised colour matching system 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>Colour matching information</i> must include:	- OEM paint codes - paint technical data sheets (TDS) - paint safety data sheets (SDS) - workplace procedures.
<i>Materials</i> must include:	- two-pack clear coats - metallic finishes - pearl finishes - paint hardeners - water-based finishes - paint thinners - paint reducers - cleaning materials.
<i>Paint tools and equipment</i>	tinting system

must include:	• paint measuring system • viscosity measuring equipment • spray guns • spectrometer type equipment • paint manufacturer colour swatches • approved spray area • drying equipment • polishing and cleaning equipment • metal or cardboard colour matching test cards • electronic paint mixing system and colour matching equipment.
Colour matching methods must include:	• using paint codes when matching • paint mixing methods • paint thinning methods • spraying techniques • drying procedures.
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 paint materials • 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.

Unit Mapping Information

Equivalent to AURVTP3014 Apply multi-layer and clear over-base colour matching techniques

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 AURVTP014 Colour match multi-layer and clear over base two-pack paints on vehicles and 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:

- colour match five different vehicle body panels, in which the work must involve the following paint types:
 - metallic paints
 - pearl paints
 - multi-layer paints
 - solid clear over base (COB) paints.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to colour matching multi-layer and clear over base two-pack paints on vehicles and components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using technical data sheets (TDS) and safety data sheets (SDS) for paint materials
 - 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
- original equipment manufacturer (OEM) paint colour codes and formulas

- types and application methods for automotive paint, including correct use of positive air feed masks
- types and use of paint colour matching equipment, including:
 - paint mixing systems
 - spray gun set-up, use and maintenance
 - paint drying equipment and methods
- colour matching methods and techniques for multi-layer and clear over base paints, including:
 - mixing system set-up and operation
 - colour test cards
 - visual colour matching tests
 - wet to wet matching
 - edge to edge matching
 - hard line matching
 - dabbing
 - paint mixing techniques
- procedures for protecting vehicle and components when colour matching
- procedures for final inspection of colour matched multi-layer and clear over base two-pack paint.

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 colour matching of multi-layer and clear over base paints they have undertaken with vehicles and components, e.g. work 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
- OEM paint codes and formulas
- TDS and SDS for paint materials
- PPE required to colour match multi-layer and clear over base two-pack paints
- paint and materials to colour match multi-layer and clear over base colours
- colour test cards
- five different vehicle panels requiring painting and colour matching

- tools, equipment and materials appropriate for colour matching multi-layer and clear over base two-pack paints on vehicles and components.

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