



Australian Government

AURVTP114 Colour match multi-layer and clear over base two-pack paints on vehicles and components

Release: 1

AURVTP114 Colour match multi-layer and clear over base two-pack paints on vehicles and components

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 match vehicle or component multi-layer and clear over base paint colours using original equipment manufacturer (OEM) paint codes. This unit 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.

The unit applies to those working in the automotive refinishing industry.

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

Unit Sector

Vehicle Body Technical - Paint

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 for work	1.1 Identify job requirements from workplace instructions 1.2 Identify hazards associated with the work, assess potential risks and implement control measures in line with workplace policies and procedures 1.3 Identify tools, equipment and chemicals required for repair activity and establish serviceability according to workplace procedures
2. Mix multi-layer clear over base colour	2.1 Set up and operate paint mixing system according to manufacturer specifications and workplace procedures

ELEMENTS	PERFORMANCE CRITERIA
	2.2 Mix paint according to manufacturer specifications, approved colour matching method, and workplace procedures
3. Prepare colour test card and perform visual matching	3.1 Prepare and spray colour matching test cards according to workplace procedures 3.2 Carry out visual matching, make comparisons between matched and original paint, and record paint codes according to workplace procedures and OEM paint codes 3.3 Remix paint for further matching prior to application if first mix does not match original paint
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 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.
Reading	- Interprets workplace instructions such as job cards - Organises and interprets technical information from workplace procedures, manufacturer specifications, industry standards and paint technical data sheets (TDS) and safety data sheets (SDS).
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Numeracy	- Interprets OEM paint codes and formulas - Uses basic mathematical operations, including addition, subtraction, multiplication and division to: - determine ratios - measure and calculate quantities of paint and materials.
Planning and organising	- Plans own work requirements - Prioritises actions to achieve required outcomes - Ensures tasks are completed within workplace timeframes.

SKILL	DESCRIPTION
Technology	• Uses specialist colour matching tools • Uses computerised colour matching system and equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTP014 Colour match multi-layer and clear over base two-pack paints on vehicles and components.

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 AURVTP114 Colour match multi-layer and clear over base two-pack paints on vehicles and components

Modification History

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

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:

- colour match at least five different vehicle body panels
- in the course of the above work, colour match at least one of each of the following paint types:
 - metallic paints
 - pearl paints
 - multi-layer paints
 - solid clear over base (COB) paints.

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 colour match multi-layer and clear over base two-pack paints on vehicles and components, including:
 - original equipment manufacturer (OEM) paint colour codes and formulas
- workplace procedures required to colour match multi-layer and clear over base two-pack paints on vehicles and components including:
 - establishing the 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

- workplace health and safety (WHS) 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 relating to colour matching multi-layer and clear over base two-pack paints on vehicles and components, including procedures for trapping, storing and disposing of waste materials
- types and application methods for automotive paint, including correct use of positive air feed masks
- types and uses of paint materials, including:
 - two-pack clear coats
 - metallic finishes
 - pearl finishes
 - paint hardeners
 - water-based finishes
 - paint thinners
 - paint reducers
 - cleaning materials
- types and use of paint colour matching equipment, including:
 - paint mixing systems
 - spray gun set-up, use and maintenance
 - paint drying equipment and methods
 - tinting system
 - paint measuring system
 - viscosity measuring equipment
 - spectrometer type equipment
 - paint manufacturer colour swatches
 - approved spray area
 - polishing and cleaning equipment
 - metal or cardboard colour matching test cards
 - electronic paint mixing system and colour matching equipment
- 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
- using paint codes when matching
- paint mixing methods
- paint thinning methods
- spraying techniques
- drying procedures
- 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

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 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.

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

Links

Companion Volume Implementation Guide is found on VETNet -

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

