



Australian Government

AURVTP004 Apply basic colour matching techniques using vehicle paint codes

Release: 1

AURVTP004 Apply basic colour matching techniques using vehicle paint codes

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to colour match paints using original equipment manufacturer (OEM) paint codes. It involves preparing for the task, selecting and using specialist tools and equipment, 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.

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. Prepare to apply basic colour matching techniques	1.1 Job requirements are determined from workplace instructions 1.2 <i>Colour matching information</i> is accessed and interpreted 1.3 Paint colour matching <i>materials</i> are selected and inspected for quality 1.4 Hazards associated with the work are identified and risks are managed 1.5 Spray painting <i>tools and equipment</i> and personal protective equipment (PPE) are selected and checked for serviceability 1.6 Work is planned to identify colour matching techniques, minimise waste, and use time efficiently
2. Mix paint colour	2.1 Paint measuring system required for job is set up and checked 2.2 Colours are mixed using approved <i>methods</i> , tools, equipment and materials, and without causing damage to vehicle and components 2.3 Mixing activities are completed according to workplace procedures, paint safety data sheets (SDS), and <i>safety and environmental requirements</i>
3. Prepare colour test cards and perform visual matching	3.1 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 if first mix does not match original paint
4. Complete work processes	4.1 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 4.2 Final inspection is made to ensure work meets workplace expectations and matched paint colour is presented ready for use 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 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 paint mixing and spray painting 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>Colour matching information</i> must include:	- OEM paint codes - paint technical data sheets (TDS) - paint SDS - workplace procedures.
<i>Materials</i> must include:	- solid colour paints - paint thinners - paint reducers - cleaning materials.
<i>Tools and equipment</i> must include:	- tinting system - scales - spray guns - pressure regulators - air compressors

	• approved spray area • heating and lighting systems • polishing and cleaning equipment • PPE • metal or cardboard colour matching test cards.
Methods must include:	• paint mixing and matching methods • spraying techniques • paint thinning methods.
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 material • handling and storing paint materials • using tools and equipment • environmental requirements, including procedures for trapping, storing and disposing of waste materials.

Unit Mapping Information

Equivalent to AURVTP2004 Apply fundamental 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 AURVTP004 Apply basic colour matching techniques using vehicle paint codes

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:

- match solid colour paints on two different vehicle panels, in which the work must involve:
 - wet to wet matching
 - edge to edge matching
 - hard line matching.

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 basic colour matching techniques using vehicle paint codes, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using technical data sheets (TDS) and safety data sheets (SDS) for paint material
 - handling and storing paint and cleaning materials
 - using tools and equipment
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) paint colour codes and formulas
- location and content of vehicle paint code manuals
- paint colour mixing techniques, including:
 - mixing system set-up and operation
 - paint application methods
 - correct use of positive air feed masks

- types and use of paint colour matching equipment, including:
 - spray gun set-up, use and maintenance
 - paint drying equipment and methods
- colour matching techniques, including:
 - wet to wet matching
 - edge to edge matching
 - hard line matching
 - dabbing
- procedures for identifying vehicle paint condition, including paint fade
- procedures for protecting vehicle and components when applying paint
- procedures for final inspection of basic colour matching.

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 paint colour matching techniques that they have applied, 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
- paint codes and formulas
- TDS and SDS for paint material
- two different vehicle panels requiring colour matching
- PPE needed for paint colour matching
- paint and colour matching materials
- paint mixing materials and system
- sample colours to be matched
- tools, equipment and materials appropriate for applying basic colour matching techniques using vehicle paint codes.

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>