

<b>Title</b>	<b>Prepare, mix and match colours to vehicles in the automotive refinishing industry</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	This unit standard is for people who work in the automotive refinishing industry. People credited with this unit standard are able to prepare to match colours to vehicle in the automotive refinishing industry, mix colours to formula, and match colours to vehicles, in the automotive refinishing industry.
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<b>Classification</b>	Motor Industry > Automotive Refinishing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and references  
Performance of the outcome of this unit standard must comply with the following:  
Hazardous Substances and New Organisms Act 1996;  
Health and Safety at Work Act 2015;  
Spray Coating Regulations 1962;  
*Approved Code of Practice for the Safe Use of Isocyanates (WorkSafe).*
- 2 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 3 *Approved Code of Practice for the Safe Use of Isocyanates* is available online from the WorkSafe website <http://www.business.govt.nz/worksafe>.
- 4 Definitions  
*Company requirements* refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications and legislative requirements.  
*Service information* may include but is not limited to – technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This may be accessed from the manufacturer.  
*Suitable materials and equipment* refer to industry approved materials and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

5 Range  
Assessment against this unit standard applies to single or two pack paint finishes.

6 Assessment  
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, service information, company and legislative requirements.

For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

7 Recommended skills and knowledge  
Unit 24006, *Demonstrate knowledge of paint scales and mixing machines, and colour matching in the automotive refinishing industry*, or demonstrate equivalent knowledge and skills.

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## Outcomes and performance criteria

### Outcome 1

Prepare to match colours to vehicle in the automotive refinishing industry.

#### Performance criteria

1.1 Suitable materials and equipment are selected.

Range may include but is not limited to – scales, computer, colour variance chips, type of paint to be matched, test panels, let-down panel, sun gun, measuring stick and paint container, spray gun, spectrophotometer.

1.2 Vehicle is situated in a well-lit and ventilated area.

Range natural light, no shadows or reflections.

1.3 Vehicle panel is cleaned and free from contamination.

### Outcome 2

Mix colours to formula in the automotive refinishing industry.

Range new and existing colours and formulas.

#### Performance criteria

2.1 Suitable materials and equipment are used in accordance with formula.

Range may include but is not limited to – scales, mixing machine, spectrometer, suitable sized and shaped container for the job.

2.2 Formula is identified.

Range may include but is not limited to – paint code, computer, colour variance chips, sun gun, spectrometer.

2.3 Quantity of paint to be mixed is determined, and colour is mixed in accordance with paint manufacturer's formula and vehicle warranty conditions.

2.4 Equipment and materials are cleaned and put away, and the work area is cleaned.

### Outcome 3

Match colours to vehicles in the automotive refinishing industry.

Range solid colours, metallic colours, pearl colours.

### Performance criteria

3.1 Equipment to match the colour is used.

Range may include but is not limited to – test panels, let-down panel, measuring stick and paint container, spray gun, sun gun, spectrophotometer.

3.2 Tinters needed to match the colour are identified.

3.3 Colour is adjusted.

Range may include but is not limited to – test panel, let-down panel; value, hue, chroma.

3.4 Paint viscosity, spray gun set-up, and application techniques are identified and used.

Range full panel, blending.

3.5 Colour is matched and applied to the vehicle, ensuring there is no difference in colour between the existing paintwork and the applied paint.

3.6 Materials and equipment are cleaned and put away, and the work area is cleaned.

### Replacement information

This unit standard and unit standard 24006 replaced unit standard 5709 and unit standard 5730.

<b>Planned review date</b>	31 December 2027
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2007	31 December 2018
Review	2	21 April 2016	31 December 2027
Review	3	25 May 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.