

Title	Use waterborne paint systems in the automotive refinishing industry		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: check the preparation of vehicle panels; prepare to use waterborne paint materials; and, apply waterborne paint materials and clearcoats, in the automotive refinishing industry.
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Classification	Motor Industry > Automotive Refinishing
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references
Performance of the outcome of this unit standard must comply with the following:
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 that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 5 Assessment
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturers specifications, service information, company requirements and legislative requirements.

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

6 Recommended skills and knowledge

It is recommended that people hold credit for Unit 23994, *Demonstrate knowledge of waterborne paint systems in the automotive refinishing industry*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Check the preparation of vehicle panels in the automotive refinishing industry.

Performance criteria

1.1 Surface is checked for defects.

Range sanding defects, repair defects, no missed sanding.

1.2 Masking is secured and smoothed.

Range no loose masking, remasking as necessary, all edges secure.

1.3 Surface is cleaned.

Range solvent wash, blow off dust, tack off dust.

Outcome 2

Prepare to use waterborne paint materials in the automotive refinishing industry.

Performance criteria

2.1 Materials are identified to enable the job to be carried out.

Range priming, basecoat, pre-cleaners.

2.2 Materials are reduced and prepared.

Range viscosity, strained, reducing medium, measuring stick, paint container.

2.3 Safety equipment is identified for the material being used.

Range cartridge respirator, positive pressure respirator, dust free overalls and head covering, gloves, safety glasses, spraybooth.

Outcome 3

Apply waterborne paint materials and clearcoats in the automotive refinishing industry.

Performance criteria

- 3.1 Spray gun for applying waterborne paints is selected and used, and the materials are applied.
- Range no runs, pinholes, dirt.
- 3.2 Spray gun for applying clearcoats is selected and used, and the clearcoats are applied.
- 3.3 Paint is dried.
- Range force dried, chemical reaction.
- 3.4 The surface is checked, and minor defects are rectified.
- Range surface is free of – dirt, runs, dryspray, orange peel, sink back.
- 3.5 Tools and equipment are cleaned and put away, and the work area is cleaned.
- 3.6 Materials are sealed and stored.
- 3.7 Safe working practices are carried out throughout the task.
- Range personal safety; safety of other people; vehicle safety; workshop safety; environmental safety; tool, equipment, and machine safety; solvent, isocyanate and paint inhalation and absorption; spray booth.

Replacement information	This unit standard and unit standard 23994 replaced unit standard 5734.
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Planned review date	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 2023
Review	2	10 December 2020	31 December 2027
Review	3	25 May 2023	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.