

Title	Demonstrate knowledge of waterborne paint systems in the automotive refinishing industry		
Level	4	Credits	2

Purpose	This theory-based unit standard is for people who work in the automotive refinishing industry. People credited with this unit standard are able to demonstrate knowledge of waterborne paint systems 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:
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/>.

Reference should be made to the following paint testing standards:
Paint Research Association testing standards www.pra-world.com;
ASTM Book of standards www.astm.org;
Caltrans Equipment Quality Standards
<http://www.dot.ca.gov/equipment/QualityStandards/EquipmentQualityStandards.html>.

- 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.

5 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of waterborne paint systems in the automotive refinishing industry.

Performance criteria

- 1.1 Waterborne paint materials are described.
Range primers, basecoats, clearcoats.
- 1.2 How waterborne base coats function is described.
Range application, drying, storage.
- 1.3 Mixing and application methods that enable waterborne materials to be applied are explained.
- 1.4 Maintenance requirements of equipment used to apply waterborne paints are explained.
- 1.5 Health and safety hazards when using waterborne paint materials are described.
Range fumes, overspray, spray mist.

Replacement information	This unit standard and unit standard 24022 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 2018
Review	2	21 April 2016	31 December 2027
Review	3	25 May 2023	N/A

Consent and Moderation Requirements (CMR) reference

0014

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.