

Title	Paint vehicle panels in basecoat and two pack clearcoat		
Level	4	Credits	8

Purpose	This unit standard is for people who work in the automotive refinishing industry. People credited with this unit standard are able to check the preparation of vehicle panels, and apply basecoat and two pack clearcoat on vehicle panels.
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Classification	Motor Industry > Automotive Refinishing
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Available grade	Achieved
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Guidance Information

- 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).
- 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.
- Approved Code of Practice for the Safe Use of Isocyanates* is available online from the WorkSafe website www.business.govt.nz/worksafe/information-guidance/all-guidance-items/acop-isocyanates.
- 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.

Heavy vehicle refers to a motor vehicle that is of Class MD3, MD4, ME, NB, NC, TC or TD; or has a gross vehicle mass that exceeds 3500 kg and is not of a class specified in the table of vehicle classes as listed from New Zealand Transport Agency website <http://vehicleinspection.nzta.govt.nz/virms/in-service-wof-and-cof/introduction/inspection-and-certification-process/identifying-the-vehicle-class>.

Light vehicle refers to classes as listed from New Zealand Transport Agency website table <http://vehicleinspection.nzta.govt.nz/virms/in-service-wof-and-cof/introduction/inspection-and-certification-process/identifying-the-vehicle-class>: passenger vehicle MA, MB, MC; omnibus MD, MD1, MD2; and goods vehicle NA.

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 tools and equipment means industry approved tools 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 a minimum of four major exterior panels on or from light or heavy vehicles covering any two of – Clear-Over-Base solid colour, Clear-Over-Base metallic colour, pearl colour.

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 (this includes the knowledge and/or use of suitable tools and equipment).

7 Recommended skills and knowledge

Unit 24002, *Mask an area for two pack painting in the automotive refinishing industry*; and Unit 24005, *Use primers, fillers, and sealers, and prepare paint for top coats in the automotive refinishing industry*; or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Check the preparation of vehicle panels.

Performance criteria

1.1 Surface is checked for defects.

Range sanding defects, repair defects, no missed sanding.

1.2 Masking is secure and smooth.

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

Apply basecoat and two pack clearcoat on vehicle panels.

Performance criteria

2.1 Suitable tools and equipment are selected and used.

Range spray gun, air-fed respirator; gloves, dust free overalls, head covering, spray booth, measuring stick, paint container, scales.

2.2 Spray gun is setup and adjusted.

Range gravity feed or suction feed, set up equipment, air pressure adjustment, fan adjustment, fluid adjustment.

2.3 Colour is identified and prepared in accordance with paint manufacturer's specifications.

Range reducing and mixing ratios, colour mixing and matching, straining, mixing stick, paint container, scales.

2.4 Paint application requirements are identified.

Range paint manufacturer's specifications, personal safety, safety of other people, vehicle safety, workshop safety, environmental safety, tools, equipment, spray booth, and machine safety, solvent, isocyanate and paint inhalation and absorption.

2.5 Basecoat is applied.

2.6 Clearcoat is applied.

2.7 Paint is dried in accordance with paint manufacturer's specifications.

Range force dried, chemical reaction.

2.8 The surface is checked and minor defects are rectified.

Range surface is free of – dirt, runs, dryspray, orange peel, sink back.

2.9 Tools and equipment are cleaned and put away, and the work area is cleaned.

2.10 Materials are sealed and stored.

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	29 January 1996	31 December 2018
Review	2	20 December 1998	31 December 2018
Revision	3	16 October 2003	31 December 2018
Review	4	26 November 2007	31 December 2018
Review	5	21 April 2016	31 December 2027
Review	6	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 the 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.