

Title	Use a spray gun to apply top coats to vehicle panels and rectify spray gun defects		
Level	4	Credits	3

Purpose	This unit standard is for people who work in the collision repair and related industries. People credited with this unit standard are able to use a spray gun to apply top coats to vehicle panels, and rectify spray gun defects.
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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 1994.
- 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 tools and materials refer to industry approved tools and materials 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 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.
- 6 Recommended skills and knowledge
Unit 24008, *Demonstrate knowledge of automotive spray guns, spraying and spray gun defects, and spray gun maintenance*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Use a spray gun to apply top coats to vehicle panels.

Range includes – gravity feed.
may include but is not limited to – high volume-low pressure, low volume-low pressure, suction feed.

Performance criteria

- 1.1 Methods of identifying top coats on surfaces are identified and carried out.
Range may include but is not limited to – sanding, paint codes and labels, computer, solvent test, visual, two tone codes, spectrometer.
- 1.2 Spray gun is set up.
Range air pressure, fluid adjustment, fan adjustment.
- 1.3 Material to be sprayed is identified and used.
Range may include but is not limited to – single pack paints, two pack paints, mixing ratios, reducing ratios, thinning ratios.
- 1.4 Spray gun is used to apply top coat ensuring the painted panel is free from defects.
Range gun distance, arc, angle, speed, overlap.
defects include – dry spray, runs, banding, uneven coating, heavy orange peel, solvent popping, oil, moisture, overloading.
- 1.5 Drying time is observed and the surface is checked to ensure it is free from defects.
Range surface is free of – dry spray, runs, uneven coating, heavy orange peel, dirt, fish eyes, sink back.

1.6 Safe working practices are carried out throughout the task.

Range correct use of – cartridge respirator, positive pressure respirator, dust free overall, head covering and gloves, safety glasses.

Outcome 2

Rectify spray gun defects.

Performance criteria

2.1 Tools and materials that will enable the gun to be repaired are selected and used.

Range water and/or solvents compatible with the paint being used, cloths, compressed air supply, lubricants, gun spanners, brushes.

2.2 Spray gun defects are identified, repaired and operates in accordance with spray gun manufacturer's specifications.

Range may include but is not limited to – air leakage, fluid leakage, defective spray pattern, no paint coming out of fluid tip, no air coming out of air cap, fluttery spray, worn fluid needle and tip, set-up.

Replacement information	This unit standard and unit standard 24008 replaced unit standard 5712 and unit standard 5715.
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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	18 August 2016	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.