

Title	Demonstrate knowledge of plastic automotive parts and painting automotive plastics		
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 plastic parts used on motor vehicles, and materials used to paint automotive plastics.
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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>.
- 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 plastic parts used on motor vehicles.

Performance criteria

- 1.1 Types of plastics used on motor vehicles are described.
- Range rigid, semi-rigid, flexible.
- 1.2 Plastics parts used on motor vehicles are identified.
- Range solvent test, flexibility test, vehicle manufacturer specifications, International Standards Organisation (ISO) code.
- 1.3 The effect of heat on the different kinds of plastics, and their heat resistance temperatures, are described.
- Range baking, support when baking.
- 1.4 The manufacturer's instructions for painting plastics are identified.
- 1.5 Health and safety hazards when using paint materials are described.
- Range fire, fumes, overspray, spray mist, toxic dust.

Outcome 2

Demonstrate knowledge of materials used to paint automotive plastics.

Performance criteria

- 2.1 Materials used when painting plastics are identified.
- Range cleaners, masking materials, plastic primers, additives, sealers, texture finishes, paints, solvents, fillers.
- 2.2 Importance of using materials specified by the manufacturer is explained.
- Range providing flexibility, anti-static, adhesive properties, preventing cracking and chipping, voiding manufacturer warranty.

2.3 Importance of removing the release agent from plastic before painting is described.

Range paint adhesion, types of cleaners.

2.4 Effects and application of plastic additives on plastic parts are described.

Range curing times, substrate.

Replacement information	This unit standard and unit standard 24015 replaced unit standard 5719.
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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
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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.