

Title	Demonstrate knowledge of preparing a vehicle body surface for painting, feather edging and preparing bare metal		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of: preparing a vehicle body painted surface for painting; feather edging; and, preparing bare metal for painting, in the automotive industry.
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Classification	Motor Industry > Vehicle Bodywork
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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.
- 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 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.
- 4 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of preparing a vehicle body painted surface for painting.

Performance criteria

1.1 Purpose of preparing a vehicle body painted surface for painting is described.

Range clean surface, gain a key, paint adhesion.

1.2 Methods of preparing a vehicle body painted surface are described.

Range hand sanding, machine sanding, abrasive selection, degreasing, cleaning.

1.3 Materials used to prepare a vehicle body painted surface are described.

Range wax and grease remover, abrasives, cleaning disks.

Outcome 2

Demonstrate knowledge of feather edging in the automotive industry.

Performance criteria

2.1 Purpose of feather edging is described.

Range smooth level surface, panel repairs, paint adhesion.

2.2 How to feather an edge is explained.

Range hand sanding, machine sanding, abrasive selection, degreasing, cleaning.

2.3 Equipment and materials used to prepare and feather edge a painted surface are described.

Range wax and grease remover; abrasives; abrasive finishing, cleaning, and buffing disks; machine sanders; sanding block; air gun; dust extraction equipment.

2.4 Safe working practices when preparing and feather edging are described.

Outcome 3

Demonstrate knowledge of preparing bare metal for painting in the automotive industry.

Performance criteria

3.1 Materials, tools, and equipment used to prepare bare metal are described.

Range abrasives, abrasive finishing, cleaning and buffing disks, metal conditioner, etch prime, sanding machines, sanding block.

3.2 Use and function of materials are described.

3.3 Safety precautions for using materials are identified.

Range metal conditioners, etch primer, abrasives, epoxy primer.

3.4 Procedures for and importance of identifying bare metals to be prepared for painting are described.

Range steel, aluminium, zinc coated steel.

3.5 Procedures to prepare bare metals for painting are described.

Replacement information	This unit standard and unit standard 21699 replaced unit standard 3867 and unit standard 3870.
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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	27 July 2005	31 December 2018
Review	2	21 April 2016	31 December 2023
Review	3	10 December 2020	31 December 2027
Review	4	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.