

Title	Demonstrate knowledge of glass reinforced plastic (GRP) and working with GRP repair kits for motor vehicles		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of: GRP used for motor vehicles; and working with GRP repair kits for motor vehicles.
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

Classification	Motor Industry > Vehicle Bodywork
-----------------------	-----------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation and references
Performance of the outcomes 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 GRP used for motor vehicles.

Performance criteria

1.1 Components that make up GRP are described.

Range resin, catalyst, fibreglass, types of GRP and sheet moulded compounds (SMC).

1.2 Uses for GRP are described.

Range vehicle panels, plastic components, ducting, fairings, mouldings.

1.3 How GRP cures is described.

Outcome 2

Demonstrate knowledge of working with GRP repair kits for motor vehicles.

Performance criteria

2.1 Tools, materials, and equipment when working with GRP are described in accordance with type and complexity of repair and repair kit recommendations.

Range cleaning solvents; sanding machines, abrasives, spreader, repair kit, container, application tools.

2.2 Effects of temperature and humidity when working with GRP are described.

2.3 Procedures and reasons for preparing damaged GRP for repair are described.

Range pre-cleaning, gaining adhesion, no loose or ragged edges.

2.4 Procedures for mixing the resin and catalyst and applying to the matting and surface are described in accordance with repair kit instructions.

Replacement information	This unit standard and unit standard 23987 replaced unit standard 5764.
--------------------------------	-------------------------------------------------------------------------

Planned review date	31 December 2027
----------------------------	------------------

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 2023
Review	3	10 December 2020	31 December 2027
Review	4	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.