

**Field**      **Engineering and Technology**

**Review of *Vehicle Bodywork* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Motor Industry	Vehicle Bodywork	339, 882, 912, 945, 947, 19637, 19638, 2345, 5467, 5468, 5740, 21693, 21694, 21695, 21696, 21697, 21699, 21701, 21702, 21703, 21705, 21709, 21710, 21711, 21713, 21714, 22798, 22799, 22801, 22802, 22803, 22927, 23980, 23981, 23986, 23987, 23990, 23991, 23998, 23999, 24081, 24084, 24085, 29575, 29709, 31442, 31443, 31991, 31992

Hanga-Aro-Rau Manufacturing (H-A-R), Engineering and Logistics Workforce Development Council has completed the review of the unit standards listed above.

**Date new versions published**

**May 2023**

**Planned review date**

**December 2027**

**Summary**

H-A-R reviewed the motor industry unit standards for the listed unit standards above to ensure they continued to be fit-for-purpose for the motor industry.

H-A-R carried out the review to better align these unit standards to the graduate profile outcomes of the New Zealand qualifications relating to Automotive Refinishing, and Collision Repair new suite of qualifications. Various unit standards were reviewed in batches between 2020 and 2021 giving multiple 'next review dates' these have now been consolidated to give a next review date of 2027. Providers with consent to assess were invited for input and feedback via email. Industry and subject matter experts provided feedback and input into the review of these unit standards.

**Main changes**

- The 'next review date' was aligned to December 2027 for all the unit standards listed.
- Guidance information was updated for all standards.
- Guidance information for all Level 4 collision repair related unit standards includes note of industry bespoke vehicle structural repairer code of practice.
- Standard setting details are updated to reflect the change of standard setting body to Hanga-Aro-Rau Workforce Development Council from 4 October 2021
- Unit standard 5468 is set to expire 31/12/2027. The content of 5468 requires the fitting of new vehicle accessories and this is now generally carried out by dealerships or contractors.
- Unit standard 945 set to expire 31/12/2027. The content of this unit standard has been incorporated into unit standard 29574.

**Category D unit standards will expire at the end of December 2027**

**The last date for assessment of superseded versions of Category B unit standards is December 2027**

## Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

### Engineering and Technology > Motor Industry > Vehicle Bodywork

ID	Title	Level	Credit	Review Category
399	Detail and groom a vehicle	2	4	B
882	Rectify faults associated with a motor vehicle body	3	3	B
912	Remove, repair, and replace vehicle body interior components	3	3	B
945	Remove and replace fixed and movable automotive glass	3	8	D
947	Demonstrate knowledge of vehicle bodywork construction	4	6	B
5467	Remove and replace light vehicle bolt-on mechanical components	3	8	B
5468	Install car and light commercial vehicle accessories in the motor body industry	3	3	D
5740	Demonstrate knowledge of motor vehicle identification plates and specifications	2	1	B
19637	Remove and repair perforated non-structural body panel corrosion damage in the collision repair industry	4	3	B
19638	Prepare and assemble vehicle body steel components by bonding	4	6	B
21693	Demonstrate knowledge of tools and equipment used in the collision repair industry	2	3	B
21694	Mask, prime, fill and sand a panel repair in the motor body industry	2	3	B
21695	Repair panel damage and shrink a panel in the collision repair industry	4	3	B
21696	Apply finish coats of paint to a complete panel in the motor industry <b>Apply finish coats of paint to a complete vehicle panel in the motor industry</b>	2	2	B
21697	Demonstrate knowledge of repairing panel damage and shrinking a panel in the collision repair industry	4	2	B
21699	Prepare a painted surface and bare metal for painting in the collision repair industry	3	3	B
21701	Demonstrate knowledge of exterior and interior motor body parts in the automotive industry	2	2	B
21702	Demonstrate knowledge of preparing a vehicle body surface for painting, feather edging and preparing bare metal	3	2	B
21703	Describe masking and primers in the collision repair industry	2	2	B

ID	Title	Level	Credit	Review Category
21705	Demonstrate knowledge of fillers, and filling and sanding a repair in the motor industry	3	2	B
21709	Remove and replace a bolted-on motor body panel in the automotive industry	3	3	B
21710	Prepare, apply and sand body filler for a motor body panel repair	3	1	B
21711	Demonstrate knowledge of colours and finish coats in the motor industry	4	4	B
21713	Use and maintain power tools and equipment in the motor body industry	2	3	B
21714	Demonstrate knowledge of fastening systems used in the automotive industry	2	2	B
22798	Remove and install direct glazed windscreens and side and rear glass on vehicles <b>Remove and install direct glazed windscreen and side and rear glass on a vehicle</b>	4	6	B
22799	Demonstrate safety precautions on vehicles fitted with air bags and seatbelt pre-tensioners	3	1	B
22801	Demonstrate knowledge of adhesives and sealants used in the automotive industry	3	3	B
22802	Use adhesives and sealants for vehicle bodywork applications	3	3	B
22803	Locate and rectify vehicle interior water leaks	4	2	B
22927	Locate and rectify vehicle body rattles, vibration, and squeaks <b>Locate and rectify vehicle body rattle, or vibration, or squeak</b>	4	3	B
2345	Diagnose faults in heavy vehicle and equipment chassis	4	3	B
23980	Demonstrate knowledge of removing and replacing vehicle dashboard panels and adjacent fittings	4	3	B
23981	Remove and replace a vehicle dashboard panel	4	5	B
23986	Demonstrate knowledge of glass reinforced plastic (GRP) and working with GRP repair kits for motor vehicles	4	2	B
23987	Repair a damaged motor vehicle panel using glass reinforced plastic (GRP)	4	2	B
23990	Demonstrate knowledge of motor vehicle fuel tanks and replacing fuel tanks	3	2	B
23991	Remove and replace a motor vehicle fuel tank	3	2	B
23998	Demonstrate knowledge of vehicle body corrosion and anti-corrosion procedures in the collision repair industry	3	4	B
23999	Reinstate vehicle body corrosion protection in the automotive industry	3	4	B
24081	Prepare and fabricate a new motor body panel in the motor body industry	3	6	B
24082	Demonstrate knowledge of fabricating a new motor body panel in the motor body industry	3	2	B
24084	Demonstrate knowledge of automotive foams	4	2	B
24085	Demonstrate knowledge of automotive glass	3	3	B
29575	Use and maintain a spray gun to apply primer in the collision repair industry	3	2	B
29709	Describe bolted-on motor body panels and motor vehicle bumpers	3	3	B

ID	Title	Level	Credit	Review Category
31442	Describe All-terrain vehicle (ATV) occupant safety systems <b>Describe All Terrain Vehicle (ATV) occupant safety systems</b>	3	2	B
31443	Describe the effects of modifications on All-terrain vehicle (ATV) handling dynamics <b>Describe the effects of modifications on All Terrain Vehicle (ATV) handling dynamics</b>	3	2	B
31991	Demonstrate knowledge of joining vehicle body components	4	12	B
31992	Determine and report on the repair solutions to restore a structurally damaged vehicle to a pre-accident state	5	5	B