

Field Engineering and Technology

Review of *Collision Repair* unit standards

Subfield	Domain	ID
Motor Industry	Collision Repair	5738, 5744, 5758, 5760, 5762, 5766, 5770, 5772, 5773, 5776, 5782, 9076, 23976, 23977, 23979, 23982, 23984, 23988, 23989, 23993, 23995, 23996, 23997, 29573, 29574, 29576-29578, 29581, 31993-31996, 31998

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 the Automotive Refinishing, and Collision Repair new suite of qualifications. 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 review date for all the unit standards listed was aligned to December 2027.
- Unit standard titles were updated to better reflect content.
- Guidance information for all collision repair unit standards was updated to include note of industry bespoke vehicle structural repairer code of practice.
- 29574 incorporates content from unit standard 945 to reduce duplication. The credit value has subsequently increased from 15 to 20 credits.
- 23979 incorporates content from 31993 to reduce duplication. The credit value has subsequently increased from 6 to 15 credits.
- The credit value of 31995 has reduced from 8 to 5 to better reflect learning and assessment time.
- 5760 and 29581 are set to expire as replacing door skins is no longer an industry practice.
- 23995, 31994, 31995, 31998, and 5776, unit standards have been reclassified from Level 5 to Level 4 to better align with the new Level 4 qualification outcomes.
- Standard setting details were updated to reflect the change of standard setting body to Hanga-Aro-Rau Workforce Development Council from 4 October 2021.

Category D unit standards will expire at the end of December 2024

The last date for assessment of superseded versions of Category B unit standards is December 2027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	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
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
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Motor Industry > Collision Repair

ID	Title	Level	Credit	Review Category
5738	Cut metals to predetermined specifications on and off a vehicle Prepare and cut metals to predetermined specifications on an automotive body panel	2	2	B
5744	Demonstrate knowledge of vehicle body construction, and the effect of impact on vehicles	3	4	B
5758	Repair a severely damaged motor vehicle steel panel Repair a severely damaged metal motor vehicle panel	4	6	B
5760	Remove and replace a damaged motor vehicle door skin	3	3	D
5762	Remove and replace a damaged motor vehicle panel attached by adhesives	4	8	B
5766	Demonstrate knowledge of motor vehicle safety systems and working on damaged systems Demonstrate knowledge of motor vehicle safety systems and damaged systems	3	4	B
5770	Replace faulty anti-lock braking system components on damaged vehicles	4	5	B
5772	Demonstrate knowledge of motor vehicle suspension, steering, and brake systems and the effects of collision	4	4	B
5773	Identify and align structural damage on a motor vehicle	4	15	B
5776	Complete repairs of perforated metal corrosion on a motor vehicle structural steel panel	5 4	6	B
5782	Identify and align aluminium structural damage on a motor vehicle	5	10	B
9076	Repair vehicle chassis damage	4	10	B
23976	Demonstrate knowledge of a hydraulic jack and attachments in the automotive industry	3	1	B
23977	Use and maintain a hydraulic jack and attachments in the motor industry	3	1	B
23979	Use vehicle unibody chassis alignment equipment and measuring systems Use vehicle unibody and body over frame chassis alignment equipment and measuring systems	5 4	6 15	B
23982	Inspect and identify vehicle damage	4	4	B
23984	Remove, repair, and replace a damaged motor vehicle plastic bumper	4	4	B
23988	Demonstrate knowledge of the resistance spot welding process used for vehicle repairs	4	2	B
23989	Use and maintain a resistance spot welding plant in the automotive industry	4	2	B

ID	Title	Level	Credit	Review Category
23993	Demonstrate knowledge of full and sectional panel replacement on motor vehicles	4	2	B
23995	Carry out a full and sectional panel replacement on motor vehicle panels Carry out a full and sectional panel replacement on a motor vehicle	5 4	20	B
23996	Demonstrate knowledge of repairing and replacing damaged non-structural motor vehicle aluminium panels	4	2	B
23997	Repair and replace a damaged non-structural aluminium panel on a motor vehicle	4	6	B
29573	Carry out pre-strip procedures in the collision repair industry	3	4	B
29574	Remove and replace motor body parts in the collision repair industry	3	15 20	B
29576	Demonstrate knowledge of digital imaging requirements in the collision repair industry	3	1	B
29577	Demonstrate knowledge of removing and refitting automotive air conditioning, cooling and oil cooling system components	3	4	B
29578	Demonstrate knowledge of automotive braking, steering and suspension system components in the collision repair industry	3	3	B
29581	Demonstrate knowledge of removing and replacing a damaged motor vehicle door skin	4	1	D
31993	Use vehicle alignment systems and a 3D measuring system on a vehicle	5	14	D
31994	Demonstrate knowledge of structural construction materials and damage repairs Demonstrate knowledge of vehicle structural construction materials and damage repairs	5 4	5	B
31995	Demonstrate knowledge of the effects of structural damage on a vehicle	5 4	8 5	B
31996	Demonstrate knowledge of vehicle body and chassis alignment and measuring systems	4	5	B
31998	Replace and join vehicle body components	5 4	25	B