

Title	Use vehicle unibody and body over frame chassis alignment equipment and measuring systems		
Level	4	Credits	15

Purpose	This unit standard is for people who work in the collision repair industry. People credited with this unit standard are able to use a vehicle alignment system and use vehicle alignment measuring systems.
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Classification	Motor Industry > Collision Repair
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Available grade	Achieved
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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;
 Land Transport Rule: Vehicle Repair 1998.

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.

Land Transport Rules are available online at <https://www.nzta.govt.nz/>.

3 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 – vehicle structural repairer code of practice, 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.

4 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.

For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

- 5 Range one vehicle with body over frame, and two vehicles with unibody.
- 6 Recommended skills and knowledge
Unit 31996, *Demonstrate knowledge of vehicle body and chassis alignment and measuring systems, or demonstrate equivalent skills and knowledge.*
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Outcomes and performance criteria

Outcome 1

Use a vehicle alignment system.

Performance criteria

- 1.1 Types and location of metals on the vehicle are identified.
- Range may include but is not limited to – mild steel, high strength steel, ultra-high strength steel, galvanised steel, aluminium, tensile strength, yield strength.
- 1.2 Direction of impact, and the amount of direct and indirect damage are identified.
- Range full frontal, side, angle, rear end, roll-over, top.
- 1.3 Anchoring points and methods of anchoring are identified.
- Range may include but is not limited to – chains, pinch welds, cross tubes; anchor pots on floor, floor grid, bench, rack, dedicated or universal jig.
- 1.4 Pulling clamps are attached to areas specified by the vehicle manufacturer, and the vehicle is aligned.
- Range single pull, multiple pull, no tearing of metal.
- 1.5 Body measurements are checked to ensure they are within vehicle manufacturer specifications.

Outcome 2

Use vehicle alignment measuring systems.

Performance criteria

- 2.1 Measuring points on a vehicle are identified and used for measuring.

2.2 Measuring systems are used.

Range must include – tape measure, trammel gauge, centring gauges; may include any one of – dedicated jigs, universal measuring system, laser system, computerised system.

Replacement information	This unit standard and unit standard 23978 replaced unit standard 5745.
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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.