

Title	Demonstrate knowledge of joining vehicle body components		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to demonstrate knowledge of joining vehicle body components.
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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 outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Vehicle Repair 1998, Rule 34001;
Health and Safety at Work (Hazardous Substances) Regulations 2017.
- 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, manufacturer 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.
Vehicle body components refers to outer panels and inner reinforcements that make up the body structure that are not attached by mechanical means such as nuts, bolts or screws.
- 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 requirements and legislative requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of joining vehicle body components.

Performance criteria

1.1 How vehicle body components are joined is described.

Range welding, riveting, bonding.

1.2 Procedures for replacing spot welds on panels are described.

Range rivet and/or bonding, Gas Metal Arc Welding (GMAW) plug weld, spot welding, GMAW brazing.

1.3 Precautions when joining vehicle components are explained.

Range joining methods may include – welding, riveting, bonding; evidence of two precautions is required.

1.4 Common joining defects are explained.

Range undercut, lack of penetration, lack of fusion, lack of adhesion, porosity, excessive spatter, distortion.

1.5 Advantages and limitations of joining methods are described.

Range evidence of two advantages and two limitations is required.

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	23 July 2020	31 December 2027
Review	2	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.