

<b>Title</b>	<b>Maintain rail joints</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to maintain rail joints; maintain rail joints; and check work and complete documentation.
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<b>Classification</b>	Rail Transport > Rail Infrastructure
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Assessment against this unit standard is to be carried out within the context of an organisation operating under a current, valid Rail Licence issued in accordance with the provisions of the Railways Act 2005. The organisation's operating rules, codes, and instructions, referred to in this unit standard, are those the organisation has in place to meet the requirements of the Rail Licence.
- 2 Legislation relevant to this unit standard includes:  
Health and Safety at Work Act 2015;  
Railways Act 2005.
- 3 Definitions  
*Organisational procedures* refer to documents that include – worksite rules, codes, and practices; equipment operating instructions; documented quality management systems; and health and safety requirements.  
*Work plan* refers to instructions that may include work or service order, verbal instruction, formal work plan.
- 4 Assessment information  
All activities and evidence must be in accordance with organisational procedures and work plan.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to maintain rail joints.

**Performance criteria**

- 1.1 Safety requirements are followed.
- Range personal protective equipment (PPE), materials, tools and equipment, communication equipment.
- 1.2 Hazards are identified and control methods are implemented.
- 1.3 Rail permission systems are followed.
- Range may include but is not limited to – track protection, permit, track access.
- 1.4 Work plan for maintenance of joints is interpreted and followed.
- Range work methods, location, staff required, materials.
- 1.5 Tools and equipment are selected and pre-operational checks are completed.
- Range may include but is not limited to – mechanical handling and lifting equipment, track maintenance machines, hand/power tools, rail tensors, tamper, fastening equipment.
- 1.6 Materials are selected and checked.
- Range may include but is not limited to – fastenings, fishplates, rail anchors, bolts, nuts, washers, clips, shims.

**Outcome 2**

Maintain rail joints.

**Performance criteria**

- 2.1 Surfaces and component parts are checked, and if required, replaced.
- Range may include but is not limited to – insulation, lubrication, expansion gap, correct assembly to specification, fishplate, bolt, sleepers, ballast.
- 2.2 Sleeper spacing is checked and if required, adjusted.
- 2.3 Joints are lifted and packed.
- Range may include but not limited to – measure top, use of track jacks, tamping, rail crow, use of sighting boards.
- 2.4 Expansion gap is checked and if required, adjusted.

2.5 Rail joints are measured and adjusted to manufacturers specifications.

Range cant, gauge, line, ballast profile.

### Outcome 3

Check work and complete documentation.

### Performance criteria

3.1 Completed work is checked for compliance with work plan.

3.2 Required documentation is completed.

<b>Planned review date</b>	31 December 2026
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 February 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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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](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this assessment standard.