

<b>Title</b>	<b>Explain track stability</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to explain track stability.
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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.

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### Outcomes and performance criteria

#### Outcome 1

Explain track stability.

#### Performance criteria

- 1.1 The effect of weather on track stability is explained.
- 1.2 The effect of rail temperature on track stability is explained.

- 1.3 The effect of track condition on track stability is explained.
- Range may include but is not limited to – fastenings, sleepers, ballast, formation, track geometry, track structure, joints.
- 1.4 The impact of track maintenance on track stability is explained.
- Range ballast, rail, fastenings, sleepers, tamping, track geometry correction, temperature range.
- 1.5 De-stressing is explained in terms of its role in maintaining track stability.
- 1.6 Outcomes of poor track stability are explained.
- Range buckling, pull apart, temporary speed restrictions, derailment, alignment.

<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#### Status information and last date for assessment for superseded versions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 the 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 unit standard.