

**40430****Carry out inspection and maintenance of passenger ropeway stations and towers**

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is for people already working in the passenger ropeway sector to carry out inspection and maintenance of passenger ropeway stations and towers.</p> <p>This skill standard may be used in programmes leading to qualifications and micro-credentials at Level 3 and above in passenger ropeway systems and maintenance.</p>

**Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria**

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Carry out inspection and maintenance of passenger ropeway stations and towers.	a. Identify potential hazards associated with stations and towers inspection and maintenance, and apply relevant control measures.
	b. Explain the operational principles and key components of passenger ropeway stations and towers.
	c. Apply safety protocols and use personal protective equipment (PPE) when performing inspections and maintenance activities.
	d. Conduct inspection of passenger ropeways stations and towers.
	e. Troubleshoot and solve mechanical issues.
	f. Perform maintenance tasks in accordance with manufacturer guidelines and industry standards.
	g. Record and report any abnormalities and defects, including electrical issues or potential safety hazards during inspections.
	h. Complete relevant documentation of inspection findings, maintenance activities, and any required follow-up actions in accordance with the organisation's requirements.

## Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

Evidence for assessment may include participation in simulated or real-world scenarios to assess practical application of skills.

It is recommended that people hold credits for skill standards 40425, *Explain regulations and compliance requirements for passenger ropeway operations*, and 40426, *Explain non-destructive testing (NDT) principles and applications for passenger ropeways* before being assessed against this skill standard or demonstrate equivalent knowledge and skills.

Definition:

*Inspection and maintenance of passenger ropeways* refers to the regular and systematic examination and maintenance of passenger ropeway systems, equipment, facilities, or processes to ensure they are in good working condition and comply with safety and operational standards. These inspections are conducted at predefined intervals as specified by passenger ropeway manufacturers' guidelines, regulatory bodies, and industry and site-specific operational requirements. These are part of a preventive maintenance program to identify and solve potential issues before they lead to equipment failure or safety hazards. The goal of routine inspections and maintenance is to maintain passenger ropeways' ensure the safe and efficient transportation of passengers, compliance with regulations, and enhance safety in the workplace

## Ngā momo whiwhinga | Grades available

Achieved.

## Ihirangi waitohu | Indicative content

- Control measures such as – lockout, safe zone.
- Maintenance activities such as:
  - Tightening loose bolts and screws
  - Replacing worn or damaged belts and hoses
  - Lubrication
  - Cleaning components
  - Adjusting settings
  - Replacing filters
  - Conducting line work:
    - alignment checks
    - inspecting bearings and rubber liners
    - ensuring the functionality of safety sensors.
- Station equipment such as – conveyors, grips, sheaves, clutches, and electrical systems.

**Rauemi | Resources**

Legislation, regulations and/or industry standards

- Electricity Act 1992;  
<https://www.legislation.govt.nz/act/public/1992/0122/latest/DLM281858.html>.
- Electrical Safety Regulations 2010. Particular attention to Schedule 1, Prescribed electrical work. Section 43, Isolation fittings for works  
<https://www.legislation.govt.nz/regulation/public/2010/0036/latest/dlm2763501.html>.
- Health & Safety at Work Act 2015  
<https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976660.html>
- Pressure Equipment, Cranes and Passenger Ropeways Regulations 1999 (PECPR)  
<https://www.legislation.govt.nz/regulation/public/1999/0128/latest/DLM284452.html>.
- NZS 8635:2018 Passenger ropeways and passenger conveyors, available at  
<https://www.standards.govt.nz/shop/nzs-86352018>.
- Manufacturers' specifications.
- Workplace operation procedures.

**Pārongo Whakaū Kounga | Quality assurance information**

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Engineering and Technology>Mechanical Engineering > Maintenance and Diagnostics in Mechanical Engineering
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0013

<b>Hātepe  </b> Process	<b>Putanga  </b> Version	<b>Rā whakaputa  </b> Review Date	<b>Rā whakamutunga mō te aromatawai  </b> Last date for assessment
<b>Rēhitatanga  </b> Registration	1	30 January 2025	NA
<b>Kōrero whakakapinga  </b> Replacement information	N/A		
<b>Rā arotake  </b> Planned review date	31 December 2029		

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council at [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this skill standard.