

**40429****Carry out inspection and maintenance of conveyor lifts in passenger ropeways**

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	15
<b>Whāinga   Purpose</b>	<p>This skill standard is for people who are already working in the passenger ropeway sector to carry out inspection and maintenance of conveyor lifts.</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. Explain the principles and components of conveyors lifts.	a. Explain principles governing the operation of conveyor lifts.
	b. Describe the components and explain their functions within conveyor lifts.
2. Explain safety system requirements, including testing and certification, for conveyor lifts.	a. Explain relevant safety standards and regulations for conveyor lifts.
	b. Explain testing and certification processes necessary for ensuring compliance and safety.
3. Explain stored energy and handling practices of conveyor lifts.	a. Explain the concept of stored energy in conveyor lifts.
	b. Explain safe handling practices for stored energy in conveyor lifts.
4. Safely load and unload passengers.	a. Load and unload passengers in accordance with recognised safe practices and load capacity.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
5. Carry out inspection and maintenance of conveyor lifts.	a. Identify potential hazards associated with conveyor maintenance and apply relevant control measures.
	b. Carry out inspection and maintenance protocols specific to conveyor lifts, ensuring safe and efficient operation.
	c. Perform visual inspections and identify potential issues or wear in belts, splices, drives, gearboxes, and galleries.
	d. Carry out maintenance procedures to address identified issues and for optimal performance and safety of conveyor lifts.
	e. 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.

#### Definitions:

*Conveyor lifts* refer to passenger and loading conveyors.

*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**

- Components such as – drive stations, intermediate sections, tensioning system, return stations, belt, belt splice, vault, emergency stop systems, control systems, communication systems, safety barriers and signs, cleaning brushes, emergency shutdown procedures, PLC (Programmable Logic Controller).
- Control measures such as – lockout, safe zone.
- Safety requirements such as – I design and construction standards, maintenance and inspection, emergency stop system, safety barriers and signs, operator training, communication systems, weather monitoring, passenger safety rules and procedures, accessibility, record keeping.
- Stored energy such as – I gravitational potential energy, loading zone and return zone, mechanical potential energy, tensioning system, kinetic energy, stored energy; drive station.
- Safe handling practices for stored energy such as – I risk assessment, lockout-tagout procedures of mechanical systems, electrical systems, release and dissipation, mechanical energy, electrical energy, chemical energy, thermal energy, training and education, safety equipment and PPE (personal protective equipment), communication and signage, inspection and maintenance, emergency preparedness.

**Rauemi | Resources**

## Legislation, regulations and/or industry standards

- 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.