

Field Engineering and Technology

Registration of *Maintenance and Diagnostics in Mechanical Engineering* skill standards

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has registered new skill standards in the *Maintenance and Diagnostics in Mechanical Engineering* domain.

Date new versions published

January 2025

Planned review date

December 2029

Summary

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council have developed these new skill standards in close collaboration with industry experts, including operators across New Zealand's ski fields, gondola systems, and passenger ropeway manufacturers and installers – these standards reflect the collective expertise and insights from across the sector. Consultation commenced in March 2023.

Developing specialised skill standards for the passenger ropeway industry is both necessary and timely, as no previous unit standards addressed the unique skills required in this sector. This new suite of skill standards has been developed to meet the needs of the passenger ropeway maintenance sector.

These skill standards comprehensively cover the maintenance of all types of passenger ropeways, from tow ropes to gondolas, ensuring that the full range of passenger ropeways in Aotearoa, New Zealand, is addressed, therefore allowing learners to select relevant standards to their own operations and skill needs. Additionally, these standards are forward-looking, incorporating global developments in the industry to future-proof the skills of maintenance engineers.

Main changes

- Eight new skill standards were developed to maintain passenger ropeways, enhance safety, and ensure the industry's continued development in New Zealand.

Detailed list of standards – classification, title, level, and credits

All changes are in **bold**.

Engineering and Technology>Mechanical Engineering > Maintenance and Diagnostics in Mechanical Engineering

ID	Title	Level	Credit	Review Category
40424	Check the functionality of operating passenger ropeway systems	3	15	New
40425	Explain regulations and compliance requirements for passenger ropeway maintenance operations	3	10	New
40426	Explain non-destructive testing (NDT) principles and applications for passenger ropeways	4	5	New
40427	Carry out inspection and maintenance of fixed grip technology in passenger ropeways	4	10	New
40428	Carry out inspection and maintenance of detachable grip technology in passenger ropeways	4	20	New
40429	Carry out inspection and maintenance of conveyor lifts in passenger ropeways	4	15	New

ID	Title	Level	Credit	Review Category
40430	Carry out inspection and maintenance of passenger ropeway stations and towers	4	10	New
40431	Carry out inspection and maintenance of wire ropes in passenger ropeways	4	5	New