

Field Engineering and Technology**Review of *Engineering - Robotics* unit standards and registration of *Mechanical Engineering Technology* skill standard**

Subfield	Domain	ID
Mechanical Engineering	Engineering - Robotics	19445, 19446, 19447, 19448

The Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of the standards listed above.

Date new versions published**September 2024****Summary**

Industry is increasingly using automation to meet the need for high volume, repeatable processes to reduce the amount of fatigue-inducing manual labour. Feedback from industry indicates that the current unit standards are not fit for purpose. Suppliers offer in-house training on robotic equipment, but this does not offer a formal pathway for learners. The development of a new skill standard, that can be included in a range of programmes, connects this learning with formal training credentials.

Main changes

- One new skill standard was developed to meet industry requirements for formal robotics training.
- Four unit standards were expired as they are no longer fit for purpose.
- The next planned review date for skill standard 40215 is 31 December 2029.

Category D standards will expire at the end of December 2026

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Mechanical Engineering > Engineering - Robotics

ID	Title	Level	Credit	Review Category
19445	Operate robotic equipment in the manufacturing industry	3	6	D
19446	Explain the principles, components, and functions of robots in the manufacturing industry	5	5	D
19447	Program a robot using teach method	5	5	D
19448	Find and repair electrical faults and perform test routines on robotic equipment	4	5	D

Engineering and Technology > Mechanical Engineering > Mechanical Engineering Technology

ID	Title	Level	Credit	Review Category
40315	Program and operate industrial robotic equipment	4	10	New