

Field **Engineering and Technology**

Review of *Mechanical Engineering* unit standards

Subfield	Domain	ID
Mechanical Engineering	Fluid Power - Hydraulics	2727, 20597, 20599, 20611, 20613
	Fluid Power - Pneumatics	20612

Hanga-Aro-Rau Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

March 2023

Planned review date

December 2027

Summary

The unit standard review process was completed in conjunction with the new qualification development of the New Zealand Certificate in Fluid Power Fundamentals (Level 3) [Ref: 4777]. The purpose of reviewing the standards was to ensure these standards were fit-for-purpose meeting industry and learners' needs that aligned with the graduate profile outcomes developed in the above qualification. A Technical Advisory Group (TAG) was formed and a consultation phase for reviewing the standards was conducted over several meetings. The industry representatives within the TAG are confident that the reviewed standards are fit for purpose meeting industry standards.

Main changes

- The main changes are within unit standards 20611 and 20612 including credit values, title changes and additional learning outcomes to meet current industry and learner needs specific to fluid power.
- Changes in remaining standards involve removing 'power' from the titles and learning outcomes and adding examples for further context.
- Hanga-Aro-Rau Workforce Development Council is the new standard-setting body responsible for Engineering and Technology unit standards.

Impact on Consent and Moderation Requirements (CMR)

All unit standards were moved from CMR 0013 to CMR 0014.

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

All changes are in **bold**.

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 > Fluid Power Hydraulics

ID	Title	Level	Credit	Review Category
2727	Service hydraulic power system components under supervision Service hydraulic system components under supervision	3	20	B
20597	Shut down for maintenance, and start up, a hydraulic power system Shut down for maintenance, and start up, a hydraulic system	2	4	B
20599	Clean a hydraulic power system for service Clean a hydraulic system for service	2	4	B
20611	Demonstrate knowledge of hydraulic power systems Demonstrate knowledge of hydraulic systems	3	5 20	B
20613	Maintain a hydraulic power system Maintain a hydraulic system	3	7	B

Engineering and Technology > Mechanical Engineering > Fluid Power Pneumatics

ID	Title	Level	Credit	Review Category
20612	Demonstrate knowledge of pneumatic power systems Demonstrate knowledge of pneumatic systems	3	5 15	B