Field Engineering Technology

Review of Engineering Core Skills unit standards

Subfield	Domain	ID
Mechanical Engineering	Engineering Core Skills	2395, 2396, 21911, 21912

Competenz has completed the review of the unit standards listed above.

Date new versions published

Planned review date

Summary

As a result of the Targeted Review of Qualifications process, Competenz has reviewed safety unit standards for inclusion in New Zealand Certificates in Mechanical Engineering and Fabrication. This process led to the review of four existing, and development of three new unit standards to reflect conditions listed in the graduate profile outcomes requiring knowledge and application of safety in mechanical engineering and fabrication.

Meetings with subject matter experts were conducted, identifying the required content and comparing this content against existing unit standards. It was identified that the current unit standards were not suitable for the specialist requirements for safety in mechanical engineering and fabrication environments. The review of existing and content of new standards is based on extensive feedback with industry experts and is endorsed by industry and providers.

Main changes

- Development of one new unit standard for health and safety when welding and thermal cutting.
- Development of one new unit standard for health and safety when using powered machinery and equipment.
- Development of one new unit standard for hazard and risk identification and management within a mechanical engineering or fabrication environment. While there are existing unit standards for risk and hazard identification (17602, 25046) it was felt by industry that these are too generic to meet their needs after the introduction of the Health and Safety at Work Act (2015), so a more contextualised unit standard has been developed.
- Addition of more detailed knowledge in the selection and safe use of hand and power tools has been incorporated into unit standards 2395 and 2396.
- Greater focus on the effects that hazards can have on long-term health and immediate safety has been incorporated into unit standards 21911 and 21912.

The last date for assessment of the most recent superseded versions of Category B unit standards is December 2021

December 2021

September 2016

w versions published

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

All changes are in **bold**.

Key to review category				
Α	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new			
	version number			
В	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID			
	and a new version number			
С	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 Core Skills

ID	Title	Level	Credit	Review Category
2395	Select, use, and care for, engineering hand tools Demonstrate and apply knowledge of the selection, use, and care of engineering hand tools	2	4	В
2396	Select, use and maintain portable hand held engineering power tools Demonstrate and apply knowledge of the selection, use, and care of portable hand held engineering power tools	2	4	В
21911	Demonstrate knowledge of safety on engineering worksites	2	2	В
21912	Apply safe working practices on an engineering worksite	2	2	В
29650	Demonstrate knowledge of the safe use of powered equipment in a mechanical engineering or fabrication workshop	2	2	New
29651	Demonstrate knowledge of health and safety when welding and thermal cutting	2	3	New
29652	Demonstrate knowledge of safety, health, risk assessment, and hazard ID and control on an engineering worksite	3	3	New