

Field Engineering and Technology**Review of *Metal Forming* unit standards**

Subfield	Domain	ID
Mechanical Engineering	Metal Casting	2373, 2378, 2380, 2381, 19741

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

Date new versions published

August 2017

Planned review date

December 2022

Summary

These unit standards were reviewed and new unit standards were written to align with the recently registered New Zealand Certificates in Mechanical Engineering and to meet Competenz' s ongoing unit standard review schedule.

The review was carried out in consultation with mechanical engineering industry technical experts and the changes were endorsed by the industry technical group.

The review resulted in the recommendation to move all unit standards from the *Metal Casting* domain to a new *Metal Forming* domain to reflect the current nature of work being carried out by this industry sector.

Main changes

- Changes were made to outcome statements, evidence requirements, and range statements to clarify assessment requirements, remove duplication, and ensure alignment with current industry requirements. Unit standards were modified to align with the revised NZQA guidelines.
- Credit values were adjusted where necessary to reflect the time required to acquire the skills and knowledge.
- Two new unit standards were developed.
- All new and reviewed unit standards in the *Metal Casting* domain have been moved to the new *Metal Forming* domain.

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Mechanical Engineering	2-7	Standard	19741	3
Domain	Metal Casting	4	Domain	Metal Forming	4
Domain	Metal Casting	2	Domain	Metal Forming	2
Domain	Metal Casting	2	Standard	19741	3

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 > Metal Casting

Engineering and Technology > Mechanical Engineering > **Metal Forming**

ID	Title	Level	Credit	Review Category
2373	Work safely with molten metals	2	3	B
2378	Pour molten metal into moulds	2	5	B
2380	Inspect and test metal castings Inspect and test metal formed products	3	15 10	B
2381	Inspect and repair refractory linings and crucibles used in metal casting processes Inspect and repair refractory linings and crucibles used in metal forming processes	3	15	B
19741	Demonstrate knowledge of common die casting defects Demonstrate and apply knowledge of common metal forming defects and quality control	2 3	5	B

Engineering and Technology > Mechanical Engineering > Metal Forming

ID	Title	Level	Credit	Review Category
30429	Demonstrate knowledge of dimensional limitations and accuracy of metal forming processes	2	5	New
30430	Transfer and pour molten metal in an industrial situation	3	15	New