

Field Engineering and Technology**Revision and reclassification of *Metal Casting* unit standards**

Subfield	Domain	ID
Mechanical Engineering	Metal Casting	2371, 2374-2377, 2379, 2382, 2386, 15130, 15131, 19449

Competenz has completed the revision and reclassification of the unit standards listed above.

Date new versions published

November 2017

Planned review date

December 2021

Summary

The unit standards, which were reviewed and registered in September 2016, were revised to extend the last date for assessments of the previous versions and to reclassify the units to the *Metal Forming* domain.

Main changes

- Unit standards were modified to align with the revised NZQA guidelines.
- All revised unit standards in the *Metal Casting* domain have been moved to the new *Metal Forming* domain.
- The last dates for assessment of some of the previous versions have been extended to 31 December 2022.

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
Domain	Metal Casting	2	Standards	2371, 2376, 2379, 2382	2
Domain	Metal Casting	4	Standards	2371, 2376, 2379, 2382	2
		4	Standards	2374, 2377, 2386	3
		4	Standards	2375, 19449	4

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

All changes are in **bold**.

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

ID	Title	Level	Credit
2371	Produce metal castings using gravity die casting machine	2	5
2374	Prepare and mix sand for metal casting processes	3	20
2375	Produce moulds and cores by hand for metal casting processes	4	25
2376	Produce moulds and cores using machines for metal casting processes	2	10

ID	Title	Level	Credit
2377	Produce molten metal using metal melting furnace	3	20
2379	Finish metal castings	2	15
2382	Produce expendable wax patterns for lost wax casting method	2	5
2386	Produce ceramic shell moulds for use in the investment casting process in metal casting	3	15
15130	Provide solutions for casting defects	5	15
15131	Determine the inclusion content of steel	5	10
19449	Prepare for and perform chemical analysis using optical emission spectrometry equipment	4	5