

Field Manufacturing**Review of Glass Container Manufacturing unit standards**

Subfield	Domain	ID
Glass and Glazing	Glass Container Manufacturing	18768 – 18772, 18919 – 18920, 18922, 18924, 23061 – 23073.

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

Date new versions published

16 April 2015

Planned review date

31 December 2019

Summary

The above unit standards were reviewed alongside the mandatory review of the Glass Container Manufacturing qualifications in response to the Targeted Review of Qualifications (TRoQ). The key stakeholder who is also the only user of these unit standards was consulted through review meetings and email correspondence.

With the alignment of standards against the new qualifications, there has been significant change to unit standard credits in order to better reflect the amount of time for learning and assessment to take place. The qualifications no longer include large elective components containing generic units and have a much more technical focus. These changes have reflected in the credit values of the new and reviewed technical unit standards which were also aligned against updated training requirements of the key stakeholder. The level of some unit standards has also increased, in alignment with the NZQA Level Descriptors.

Main changes

- Unit standard 18768 has been replaced by unit standards 28568 and 28569.
- The title, level and credit value of unit standard 18769 have changed.
- The title, level, and credit value of unit standard 18770 have changed.
- Unit standard 18772 has been replaced by unit standards 28570 and 28571.
- The title, level, and credit value of unit standard 18919 have changed.
- The title, level and credit value of unit standard 18920 have changed.
- The level and credit value of unit standard 18922 have increased.
- Unit standard 18942 has been set to expire and has been replaced by four new unit standards 28564-28567.
- The level of unit standard 23061 has increased from 1 to 2.
- The title, level and credit value of unit standard 23062 have changed.
- The level of unit standard 23063 has increased from 1 to 2.
- The title of unit standard 23064 has changed.
- The credit value of unit standard 23065 has increased from 8 to 75.
- The level and credit value of unit standard 23066 have changed.
- The title, level and credit value of unit standard 23067 have changed.
- The title, level and credit value of unit standard 23068 have changed.
- The title of unit standard 23069 has changed.
- The title of unit standard 23070 has changed and the credits have decreased.
- The level of unit standard 23071 has increased from 1 to 2.

- The title of unit standard 23072 has changed and the level and credits have increased.
- The title of unit standard 23073 has changed and the credits have increased.

Category C unit standards will expire at the end of December 2015

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
Standard	18768	1	Standard	28568, 28569	2
	18769	2		18769	3
	18770	2		18770	3
	18772	2		28570, 28571	3
	18919	2		18919	4
	18920	3		18920	4
	18922	3		18922	4
	18924	4		28564, 28565, 28566, 28567	5
	23061	1		23061	2
	23062	1		23062	2
	23063	1		23063	2
	23066	1		23066	2
	23067	2		23067	3
	23068	3		23068	4
	23071	1		23071	2
	23072	2		23072	3

Impact on registered qualifications

Key to type of impact	
Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Competenz qualifications are impacted by the outcome of this Review. These qualifications will expire as a result of the TRoQ process. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID
1358	National Certificate in Glass Container Manufacturing (Level 1)	18768, 23061, 23062, 23063, 23066, 23071
1359	National Certificate in Glass Container Manufacturing (Level 2) with strands in Batch and Furnace, Forming, Job Change, Quality Control, and Mould Repair	18769, 18770, 18772, 18919, 18922, 23064, 23065, 23067, 23072
1360	National Certificate in Glass Container Manufacturing (Level 3) with strands in Batch and Furnace, Forming, Mould Repair, and Quality Control	18920, 18922, 23068, 23069, 23073
1378	National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 2)	18919, 23064, 23072
1379	National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 3)	23073
1462	National Certificate in Glass Container Manufacturing (Level 4)	18924, 23070

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

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit	Review Category
18768	Demonstrate knowledge of glass container manufacturing	1	5	C
28568	Describe the manufacture of glass and the container forming process	2	3	New
28569	Demonstrate knowledge of glass containers and glass container faults	2	3	New
18769	Maintain supply of raw materials for glass furnace operations	2 3	8 35	B
	Receive raw materials and operate storage, handling, and batching equipment in glass container manufacturing			
18770	Perform analytical tests for batch and glass quality in accordance with enterprise procedure	2	3	B
	Perform analytical tests for batch and glass quality in glass container manufacturing	3	20	

ID	Title	Level	Credit	Review Category
18772	Operate glass container inspection and packaging equipment	2	8	C
28570	Perform glass container packaging process operations	3	24	New
28571	Inspect and perform fracture analysis on glass containers	3	24	New
18919	Perform job changes on an independent section machine for glass container forming	2	4	B
	Perform job changes on independent section machines for glass container forming	4	30	
18920	Perform advanced operations for glass container forming	3	10	B
	Perform glass container forming operations	4	20	
18922	Perform quality control on a glass container production line	3	10	B
		4	30	
18924	Control and optimise the glass container forming process	4	20	C
28564	Control and optimise forehearth operations for glass container manufacturing	5	25	New
28565	Control and optimise the feeder operation for glass container manufacturing	5	15	New
28566	Control and optimise gob loading and delivery gear for glass container manufacturing	5	10	New
28567	Control and optimise the independent section machines for glass container manufacturing	5	20	New
23061	Demonstrate knowledge of batch house operations for glass container production	1	2	B
		2		
23062	Demonstrate knowledge of glass container conveying, inspection, packaging, and quality control	1	6	B
	Demonstrate knowledge of glass container manufacturing finished products operation	2	2	
23063	Demonstrate knowledge of forming equipment for the production of glass containers	1	2	B
		2		
23064	Operate off-line glass container forming equipment	2	4	B
	Demonstrate knowledge of and operate off-line glass container forming equipment			
23065	Operate glass container forming equipment	3	8	B
			75	
23066	Demonstrate basic knowledge of glass furnace structure and operations	1	3	B
		2	2	
23067	Describe the principles, operation and control of a glass furnace	2	6	B
	Describe the operation and control of a glass furnace	3	20	
23068	Control automatic raw material weighing and delivery equipment and operate a glass furnace	3	15	B
	Control raw material weighing and delivery equipment and operate a glass furnace	4	38	

ID	Title	Level	Credit	Review Category
23069	Carry out emergency operation of plant services and equipment for glass container production Carry out operation of plant services and equipment during systems failure for glass container production	3	12	B
23070	Demonstrate knowledge of glass container raw materials and control glass furnace operations Demonstrate knowledge of raw materials used in glass container manufacturing	4	20 10	B
23071	Demonstrate knowledge of mould equipment for glass container production	1 2	2	B
23072	Prepare, service, and repair mould equipment for glass container production Prepare and service mould equipment for glass container manufacturing	2 3	16 35	B
23073	Perform fault diagnosis, repair and modification of mould equipment for glass container production Perform fault diagnosis, repair, modification and preparation of mould equipment for glass container manufacturing	3	10 40	B