National Certificate in Glass Container Manufacturing (Level 3) with strands in Batch and Furnace, Forming, Mould Repair, and Quality Control

Level **3**

Credits **45**

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2017.

Transition Arrangements

This qualification has been reviewed and replaced by the New Zealand Certificate in Glass Container Manufacturing (Level 3) with strands in Forming Operations; Finished Product Operations; Batch and Furnace Operations; and Mould Maintenance [Ref: 2446].

Version 3 of this qualification has been republished to set the last date for entry into programmes leading to it to 31 December 2016. Also to extend the last date for award of programmes leading to it from 31 December 2016 to 31 December 2017.

People currently working towards the replaced qualification must complete its requirements, or transfer to a programme of study or training leading to the replacement qualification, by 31 December 2017.

For detailed information see Review Summaries on the NZQA website.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	March 2008	December 2016
Review	2	February 2010	December 2016
Review	3	January 2015	December 2017
Republish	3	January 2016	December 2017

Standard Setting Body

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Level **3**

Credits **45**

Purpose

The National Certificate in Glass Container Manufacturing (Level 3) with strands in Batch and Furnace, Forming, Mould Repair, and Quality Control [Ref: 1360] is a qualification suitable for specialised aspects of glass container manufacturing. The qualification is designed to recognise the skills and knowledge necessary to perform Batch and Furnace operations or Forming operations at an advanced level. The core elective section offers flexibility to meet the specific individual's and/or enterprise requirements. This qualification follows on from the National Certificate in Glass Container Manufacturing (Level 2) with strands in Batch and Furnace, Forming, Job Change, Quality Control, and Mould Repair [Ref: 1359].

Holders of this certificate are able to work under limited supervision.

Certificate holders are encouraged to undertake further training. Career paths towards more technical roles such as processing specialists are available through the National Certificates in Engineering and Technology (Glass Container Mould Maintenance) at Levels 2, and 3 [Refs1378, 1379]. People interested in acquiring supervisory skills and knowledge may be interested in undertaking the National Certificate in Business (First Line Management) (Level 3) [Ref: 0743] and the National Certificate in Business (First Line Management) (Level 4) [Ref: 0649].

The National Certificates in Glass Container Manufacturing at Levels 1, 2, and 3 [Refs: 1358, 1359, 1360] require specified and elective credits from the Glass Container Manufacturing domain and therefore share significant credits with the National Certificates in Engineering and Technology (Glass Container Mould Maintenance) at Levels 2, and 3 [Refs: 1378, 1379]. They are for hands-on production personnel, and in comparison to the Engineering and Technology qualifications the compulsory engineering content is much lower, the qualification suite has fewer levels, and they are significantly smaller in terms of credit requirements.

Credit Range

	Core Compulsory	Core Elective
Level 1 credits	-	0-5
Level 2 credits	-	0-5
Level 3 or above credits	4	21-31
Minimum totals	4	26-31

	Batch and Furnace Strand	Forming Strand
Level 3 or above credits	12 or 15	10
Minimum totals	12 or 15	10

	Mould Repair	Quality Control strand
Level 3 or above credits	10	10
Minimum totals	10	10

Requirements for Award of Qualification

Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at http://www.nzqa.govt.nz/ncea/acrp/index.html.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same Id may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- A minimum of 45 credits at Level 3 or above
- Core Compulsory standards
- Core Elective – Balance

One of the following strands is required
- Batch and Furnace Strand
- Forming Strand
- Mould Repair Strand
- Quality Control Strand

Detailed Requirements

Core Compulsory
The following standard is required

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4

Core Elective
The balance of credits to achieve
A minimum of 45 credits at Level 3 or above
May come from the following

Field	Subfield	Domain
Business	Business Operations and Development	Any
Computing and Information Technology	Computing	Generic Computing
Core Generic	Core Generic	Any
Engineering and Technology	Electrical Engineering	Core Electrical
	Electronic Engineering	Core Electronics
		Electronic Manufacturing
	Mechanical Engineering	Engineering Core Skills
		Engineering Drawing and Design
		Engineering - Fabrication
		Engineering Machining and Toolmaking
		Engineering - Materials
		Engineering - Measurement
		Fluid Power - Hydraulics
		Fluid Power - Pneumatics
		Maintenance and Diagnostics in Mechanical Engineering
		Mechanical Assembly
		Mechanical Commissioning
		Mechanical Installation
		Welding
	Technology	Any
Health	Health Studies	Core Health
	Occupational Health and Safety	Occupational Health and Safety Practice
Humanities	Communication Skills	Any
	English	Any
	Languages	English for Speakers of Other Languages
Manufacturing	Any	Any
Sciences	Environment	Any
	Mathematics	Any
	Science	Chemistry
		Physics
		Science - Core

Field	Subfield	Domain
Service Sector	Lifting Equipment	Any
	Retail, Distribution, and Sales	Distribution
		Retail and Distribution Core Skills
		Stock Control
	Service Sector Skills	Any

Batch and Furnace Strand
A minimum of 1 standard

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit
23068	Control automatic raw material weighing and delivery equipment and operate a glass furnace	3	15
23069	Carry out emergency operation of plant services and equipment for glass container production	3	12

Forming Strand
The following standard is required

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit
18920	Perform advanced operations for glass container forming	3	10

Mould Repair Strand
The following standard is required

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit
23073	Perform fault diagnosis, repair and modification of mould equipment for glass container production	3	10

Quality Control Strand
The following standard is required

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit
18922	Perform quality control on a glass container production line	3	10

Transition Arrangements

Version 2

Version 2 was issued following review.

Changes to structure and content

- Standards 8081, 8085, and 8087 are no longer listed in the compulsory section of the qualification. These standards continue to form part of the qualification within their designated domains in the elective section.
- Standards 1312, 3491, 9681, 11097 and 23069 are no longer listed in the core elective as they are already included within the specified subfields and domains.
- The expiring *Composites* domain has been removed from the core elective and an exemption has been added for the new *Composites* subfield in the *Manufacturing* field.
- Two new strands have been added for Mould Repair and Quality Control.
- The qualification title has been updated to include the new strands.
- The requirement for the prior award of Ref: 1359 for the Batch Furnace, and Forming strands has been removed.

For detailed information see Review Summaries on the NZQA website.

All existing candidates may complete version 1 or transfer their existing achievements to version 2.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	**Exempt from**
18923	23067, 23068

This qualification contains classifications that replace earlier classifications. People who have gained credit for standards in the lapsed classifications may continue to use those credits to meet the qualification requirements.

Standards from	**Are treated as Standards from**
Engineering and Technology > Mechanical Engineering > Fluid Power	Engineering and Technology > Mechanical Engineering > Fluid Power - Hydraulics
Engineering and Technology > Mechanical Engineering > Fluid Power	Engineering and Technology > Mechanical Engineering > Fluid Power - Pneumatics
Service Sector > Distribution	Service Sector > Retail, Distribution, and Sales
Service Sector > Storekeeping and Warehousing	Service Sector > Retail, Distribution, and Sales
Engineering and Technology > Electronics Technology > Core Electronics	Engineering and Technology > Electronic Engineering > Core Electronics
Engineering and Technology > Electronics Technology > Electronic Manufacturing	Engineering and Technology > Electronic Engineering > Electronic Manufacturing
Engineering and Technology > Mechanical Engineering > Composites	Manufacturing > Composites

Competenz has endeavoured to ensure that no person has been disadvantaged by this review. Anyone who thinks that they have been disadvantaged should, in the first instance, contact the ITO at the address below.

Previous version of the qualification

Version 1 was developed following an extensive review of the National Certificates in Materials Processing at Levels 1, 2, and 3 [Refs: 1072, 1073, 1074]. It contained standards that replaced earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
3502	11097

Other standard setting bodies whose standards are included in the qualification

New Zealand Industry Training Organisation
NZQA

Certification

The certificate will display the logos of NZQA, Competenz Incorporated and the accredited organisation.

Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	**Description**	**Code**	**Description**
1798	Manufacturing > Glass and Glazing > Glass Container Manufacturing	030199	Engineering and Related Technologies > Manufacturing, Engineering and Technology > Manufacturing Engineering and Technology not elsewhere classified

Quality Management Systems
Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.