National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 2)

Level **2**

Credits **84**

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2016.

Transition Arrangements

This qualification has been reviewed and designated expiring. It will not be replaced.

No new enrolments will be accepted into programmes leading to this qualification.

For detailed information see Review Summaries on the NZQA website.

NZQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	May 2008	December 2016
Review	2	January 2015	December 2016

Standard Setting Body

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National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 2)

Level **2**

Credits **84**

Purpose

The National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 2) [Ref: 1378] is a qualification intended for people who are performing routine mould maintenance in the glass container manufacturing industry. The qualification follows on from the National Certificate in Glass Container Manufacturing (Level 1) [Ref: 1385], and provides further knowledge and skills associated with glass container manufacturing. The primary focus of the qualification is however to build substantial mechanical engineering skills and apply them to glass container mould maintenance. As a consequence this qualification shares standards in common with the National Certificate in Mechanical Engineering (Level 2) [Ref: 1220].

All the standards in this qualification are compulsory because it covers a distinctive combination of skills and knowledge required by the glass container manufacturing industry. Holders of this certificate are able to work under supervision as mould maintenance operatives.

Certificate holders are encouraged to undertake further training towards the National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 3) [Ref: 1379]. Alternatively, career paths towards various mechanical engineering roles are also available within the glass container manufacturing industry. These include those roles traditionally referred to as Fitters and Turners, Maintenance Fitters, and Precision Machinists, and are available through the National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, and Toolmaking [Ref: 1262]. 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].

Credit Range

Level 1 credits	2
Level 2 credits	82
Total	84

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

- Prior award of National Certificate in Glass Container Manufacturing (Level 1) [Ref: 1358] or National Certificate in Materials Processing (Level 1) with strands [Ref: 1072] with the Glass Containers strand.
- Compulsory standards

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Mechanical Engineering > Engineering Core Skills

ID	Title	Level	Credit
2395	Select, use and care for, engineering hand tools	2	4
2396	Select, use and maintain portable hand held engineering power tools	2	4
21906	Perform basic mechanical engineering machining operations under supervision	2	12
21911	Demonstrate knowledge of safety on engineering worksites	2	1
21912	Apply safe working practices on an engineering worksite	2	2

Engineering and Technology > Mechanical Engineering > Engineering Drawing and Design

ID	Title	Level	Credit
2430	Draw and interpret engineering sketches under supervision	2	4
2431	Draw and interpret engineering drawings under supervision	2	8
2432	Construct engineering plane geometric shapes under supervision	2	3

Engineering and Technology > Mechanical Engineering > Engineering - Materials

ID	Title	Level	Credit
20799	Demonstrate basic knowledge of engineering metals	2	4
20917	Demonstrate basic knowledge of engineering materials	2	2

Engineering and Technology > Mechanical Engineering > Engineering - Measurement

ID	Title	Level	Credit
4432	Demonstrate knowledge of, and convert, units of measure used in engineering	2	2
4433	Select, use, and care for simple measuring devices used in engineering	1	2
4435	Select, use, and care for engineering dimensional measuring equipment	2	3
4436	Select, use, and care for engineering marking-out equipment	2	4

Engineering and Technology > Mechanical Engineering > Mechanical Assembly

ID	Title	Level	Credit
2387	Assemble mechanical components under supervision	2	2

Engineering and Technology > Mechanical Engineering > Welding

ID	Title	Level	Credit
21907	Demonstrate and apply knowledge of safe welding procedures under supervision	2	3

Manufacturing > Glass and Glazing > Glass Container Manufacturing

ID	Title	Level	Credit
18919	Perform job changes on an independent section machine for glass container forming	2	4
23064	Operate off-line glass container forming equipment	2	4
23072	Prepare, service, and repair mould equipment for glass container production	2	16

Transition Arrangements

For detailed information see Review Summaries on the NZQA website.

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
2389	2387

Credit for	Exempt from
2670	21907
2824	21911, 21912
4795	20917
4796	20799
18771	23064

Other standard setting bodies whose standards are included in the qualification

Competenz

Certification

The certificate will display the logos of NZQA, the provider and Competenz.

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**
79	Engineering and Technology	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.