

Title	Demonstrate knowledge of continuous improvement methods to optimise glass production		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of continuous improvement methods to optimise glass production.
----------------	---

Classification	Glass and Glazing > Glass Processing and Manufacturing
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation and guidelines relevant to this unit standard include:
[Health and Safety at Work Act 2015](#);
Safe Use of Machinery: Best Practice Guidelines; available at www.worksafe.govt.nz.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes.

- 2 Definitions
Continuous improvement refers to a methodological system or approach used to organise and maintain the workplace for efficiency and effectiveness. Example methodology is the 5S methodology, which includes five phases: Sort (eliminate what is not needed), Set in Order (organise remaining items), Shine (clean and inspect the work area), Standardise (write standards for organisation and processes), and Sustain (regularly apply the standards). Similar methodologies may include other lean manufacturing tools and techniques aimed at continuous improvement and waste reduction, such as Kaizen, Lean Six Sigma, or Total Quality Management (TQM).
Job specifications refer to the scope of the work being undertaken. They include the objectives, quality requirements, deliverables, timeline, and budget.
Workplace procedures refer to documented procedures specific to a workplace that set out the standard and required practices of that workplace. These may include job specifications, procedures, practices, manufacturer recommendations, technical data sheets, and material safety data sheets.

- 3 Assessment
Evidence for this unit standard must reflect:
 - industry standards, current health, safety, industry, and workplace procedures;
 - job specifications and customer requirements;
 - industry requirements for commercially acceptable timeframes.

- 4 Range
Methodologies may include but are not limited to – 5S, Kaizen, Lean Six Sigma, Total Quality Management (TQM).

The learner must state the methodology used as part of their answers.

- 5 Areas of improvement must be within learners' own control and must be approved by the employer or supervisor before implementation.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of continuous improvement methods to optimise glass production.

Range may include but is not limited to – enhancing efficiency, reducing waste, increasing productivity, or improving product quality, and manufacturing methods.

Performance criteria

- 1.1 The principles and key concepts of continuous improvement methodologies are explained in relation to manufacturing optimisation.
- 1.2 Current production methods, equipment, and materials used in glass processing are identified in relation to production optimisation.
- 1.3 Specific stages in glass production where continuous improvement methodology can be and is applied are identified.
- 1.4 Areas for potential improvement are described in relation to continuous improvement methodology.
- 1.5 Impact of potential changes on glass production outcomes is described.

Planned review date	31 December 2029
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 October 2024	N/A

Consent and Moderation Requirements (CMR) reference	0073
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.