

<b>Title</b>	<b>Demonstrate knowledge and carry out routine maintenance of preform injection moulds</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of the construction and operation of a preform injection mould, and carry out routine maintenance on a preform injection mould in the machine.
----------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Classification</b>	Plastics Processing Technology > Injection Stretch-Blow Moulding
-----------------------	------------------------------------------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

<b>Entry information</b>	
<b>Recommended skills and knowledge</b>	Unit 15211, <i>Service tooling for injection stretch-blow moulding</i> .

**Explanatory notes**

- 1 Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015.
- 2 Definitions  
*Tooling* – the preform injection mould and the container blow mould(s).  
*Workplace procedures* – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, site safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 3 This unit standard applies to two stage injection stretch-blow moulding processes.
- 4 All evidence requirements must be performed in accordance with workplace procedures.

## Outcomes and evidence requirements

### Outcome 1

Demonstrate knowledge of the construction and operation of a preform injection mould.

#### Evidence requirements

- 1.1 Workplace engineering drawings are used to interpret mould operation and construction.
- 1.2 The principal effects of shrinkage, venting, gate balancing and cooling on mould design and construction are described.

### Outcome 2

Carry out routine maintenance on a preform injection mould in the machine.

#### Evidence requirements

- 2.1 Mould routine maintenance is carried out.

Range examples of routine maintenance are – neck splits removal and cleaning, nozzle cleaning, hot runner valve stem cleaning, vent cleaning, component replacement, thermocouple replacement, heater band replacement; evidence is required for five routine maintenance activities.

<b>Planned review date</b>	31 December 2021
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 September 1998	31 December 2019
Revision	2	15 November 2002	31 December 2019
Revision	3	17 March 2004	31 December 2019
Rollover and Revision	4	25 September 2006	31 December 2019
Review	5	18 September 2009	31 December 2019
Review	6	15 September 2016	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
------------------------------------------------------------	------

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

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

---

**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.